

# SYLLOGE FUNGORUM

OMNIUM HUCUSQUE COGNITORUM

DIGESSIT

P. A. SACCARDO

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VOL. XI.

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SUPPLEMENTUM UNIVERSALE

Pars III.

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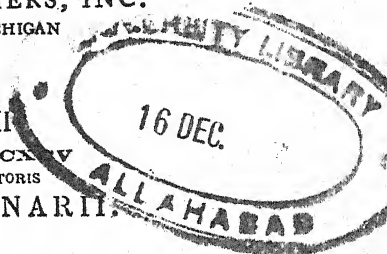
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NOMINA EMENDANDA.

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*Clavaria Bresadolæ* Cav. (1894), n. 842, dicatur **Clavaria Cavaræ** Sacc., quum extet  
anterior *Cl. Bresadolæ* Quél. (1888), n. 845.

*Hydnum fragrans* Britz. (1894) n. 21, dicatur **H. Britzelmayri** Sacc., quum extet  
præcedens *H. fragrans* Chod. et Mart. (1891) n. 660.

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DOCTORI  
JOSEPHO SCHROETER  
SILESIACO  
(MDCCCXXXVII-MDCCCXCV)  
SCIENTIÆ MYCOLOGICÆ  
QUAM DOCTISSIME ILLUSTRAVIT  
PRÆMATURE EREPTO

VOLUMEN HOC

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## PRÆMONITUS

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Mycologiæ cultus adeo hisce diebus ubique increvit atque merito tanti factus est, ut libri recentiores atque opuscula et diaria pleraque de fungis tractantia apud omnes fere scholas botanicas v. agrarias facile prostent. Res cum ita se habeat, satius duxi, ut laborem mihi breviarem et voluminis molem atque pretium lectoribus, sine nimio scientiæ damno, deminuerem, diagnosim plenam pluribus speciebus præsertim minoribus omittere; notas tamen potiores attuli ut via ad fungorum determinationem aperiatur, quæ vero dumtaxat librorum originalium ope tute confirmari poterit.

Iterum monendum censeo, quod si nova quædam fungorum genera a neotericis legitime proposita non accipiam, ex eo tantum pendet quia tunc et ceterarum specierum in Sylloge jam descriptarum revisio foret necessaria, quæ non nisi a monographis perite absolvenda est.



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## Mycologi v. botanici qui quocumque modo Syllogi profuerunt <sup>1)</sup>

(Continuatio. Cfr. vol. VIII, p. IX, et X, p. V)

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S. BANDMANN (*Breslau*) — E. BARONI (*Firenze*) — J. C. BAY (*Missouri*) — F. BEHRENS (*Karlsruhe*) — C. BRICK (*Hamburg*) — N. BRIZI (*Roma*) — E. BURT (*New York*) — AD. CHATIN (*Paris*) — ST. CHELCHOWSKI (*Chojnowo, Polonia*) — F. E. CLEMENTS (*Nebraska*) — G. COUDERC (*Paris*) — B. M. LUGGER (*Cambridge, Mass.*) — J. FELIX (*Leipzig*) — AD. FIORI (*Padova*) — B. GOSIO (*Roma*) — P. HARIOT (*Paris*) — R. HARTIG (*München*) — E. HENNING (*Stockholm*) — J. A. HENRIQUES (*Coimbra*) — A. DE JACZEWSKI (*Giatsk, Smolensk*) — E. JANCZEWSKI (*Krakow*) — H. O. JUEL (*Upsala*) — M. DE LAPLANCHE (*Luzy*) — G. LINDAU (*Berlin*) — D. MAC ALPINE (*Melbourne*) — ÉMILE MARCHAL (*Bruzelles*) — L.

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<sup>1)</sup> Plurimi ex laudatis botanicis opera v. opuscula mycologica benevole miserunt, quibus auctor devinctissimus gratias agit.

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## HYMENOMYCETÆ — Syll. V, p. 3, IX p. 1 \*)

*Fam. 1. Agaricacæ Fr.*

*Sect. 1. Leucosporæ Fr.*

**AMANITA Pers.** — Syll. V, p. 8, IX p. 1.

1. *Amanita pellucidula* Banning et Peck 44 Rep. p. 66. — Pileo primo<sup>1</sup> campanulato, dein expanso, subviscido, centro carnoso, margine attenuato, levi, læte rubro, apice saturatiore, margine pellucide flavo-tincto, nitente; contextu albo, immutabili; lamellis ventricosis, liberis, numerosis, flavis; annulo descendente, fugaci; stipite farcto. albido v. pallide cremeo.

*Hab.* ad Baltimore Amer. bor. — Habitus *A. caesareæ* sed statura minor; sporæ eadem.

2. *Amanita strobilacea* Cooke in Grev. XIX, p. 82 (*Agaricus*). — <sup>2</sup> Pileo convexo, hemisphærico, pallide citrino, verrucis v. squamis magnis, persistentibus, obtuse pyramidatis strobili ad instar oblecto, margine incurvo; stipite brevi, valido, solido, basi subincrassato, superne annulato; volva stricte adnata, circumscissili, marginata,

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\*) Ad species Hymenomycetum determinandas, icones, ut notum est, maxime præstant: hinc ditissimus *Dictionnaire iconograph. des champignons supér.* Paris 1894 a cl. M. DE LA PLANCHE accurate digestus qui plura millia iconum indigitat, valde commendandus. Ad hoc studium maxime confert iconographia nunc absoluta Agaric. britannic. (*Illustr. of Hymen.*) cl. COOKEI, qua nullus mycologus carere potest. Idem dicatur de iconibus cl. GILLETII, BARLA, BRESADOLA, PATOUILLARD. Quod ad vastum opus cl. BRITZELMAYRI (*Hymen. aus Südbayern*) attinet, fatendum est illud formas novas quam plurimas (forte nimias) et observationes micrologicas iconesque permultas et sat fidas colligere, sed diagnoses brevissimæ sunt et ob typorum dispositionem et difformitatem ægerrime conferendæ; hinc species novas tantum hic enumeravi, loca et notas paucissimas addens; studiosi vero opus et præcipue icones Britzelmayri deinde necessario comparabunt. Notæ micrologicae plurimorum Hymenomycetum (vere perutiles!) inveniuntur apud Grevill. XXI, p. 77, et Britz. *Hym. Südbayer* ser. VI, p. 5-34.



- 2           Hymenomycetæ, Agaricæ, Leucosporæ, Lepiota  
longitudinaliter sulcata; lamellis subangustis, non confertis, liberis,  
canaliculum circa stipitem relinquentibus; sporis hyalinis, 5  $\approx$  2,5.  
*Hab.* ad terram, Victoria Australiæ. — Pileus 7,5–10 diam.; stipes  
10  $\approx$  2,5 cm. Affinis *A. ananæcipiti* sed sporis diversa.
3. **Amanita permunda** Britz. Hym. Südbayer IX, p. 2, f. 477. 3  
*Hab.* in silvaticis Baviaræ austr. — Sporæ 10  $\approx$  6; inodora albi-  
da; affinis *A. aridæ*.
4. **Amanita olens** Britz. Hym. Südbayer, IX, p. 2, f. 471, 472. 4  
*Hab.* in silvaticis Baviaræ infer. — Sporæ 10  $\approx$  7–8; brunnea;  
affinis *A. pantherinæ*.
5. **Amanita bellula** Britz. Hym. Südbayr IX, p. 2, f. 127, 475, 476. 5  
*Hab.* in Bavaria australi. — Carneæ; sporæ 10  $\approx$  6;

**LEPIOTA** Fr. — Syll. V, 27, IX, p. 3.

1. **Lepiota tonkinensis** Pat. Bull. Soc. Myc. 1892, p. 46. — Pileo 6  
orbiculari, convexo; fibrilloso-squamoso, margine striato, umbonato,  
violaceo-rubente, centro obscuriore, margine pallidiore; lamellis al-  
bis, liberis; stipite albido, vacuo, cylindræo; sporis hyalinis ovatis,  
8–10  $\approx$  4–5.  
*Hab.* in silvis, Tonkin (Box). — Pileus 3–4 cm. lat.; stipes  
6–8 cm. long. 3–6 mm. cr. *L. biornatæ* et *L. erythrogrammæ*  
proxima.
2. **Lepiota Callamba** Lagerh. Bull. Soc. Myc. 1893, p. 124. — Pileo 7  
hemisphærico, demum ex convexo expanso, late umbonato, glabro,  
griseolo lutescente, margine primo floccoso demum squamuloso; sti-  
pite basi incrassato, fistuloso, medulla gossypina farcto, candido,  
glabro; annulo persistente, albo, infero, fixo, margine subtus fla-  
vescente, glabro; lamellis libere adnæxis, albis v. albo-roseolis;  
sporis ovatis inæquilateralibus apiculatis, hyalinis, 1–3-guttatis,  
9–12  $\approx$  6–7; basidiis clavatis 30–33  $\approx$  12.  
*Hab.* in hortis et campis ad Quito. — Pileus 9–12 cm. diam.;  
stipes 8–18 cm. long. 1,5–3 cm. cr.
3. **Lepiota spectabilis** Clements Bot. Surv. Nebr. Rep. III, 1893, p. 12. 8  
— Solitaria; pileo carnoso-membranæo, argenteo-fibrilloso v. pul-  
verulento, dilute sulphureo, margine radiatim striato-sulcato, disco  
depresso, glabro, flavo, 5 mm. diam; stipite tenui, basi valde incre-  
sato, apice annulo squamuloso, infra glabro cincto; annulo inferiore  
fisso stramineo; lamellis confertis angustis, dilute flavis; sporis ovoi-  
deis 5–6  $\mu$ . long., 1-guttatis.

*Hab.* in calidariis, Lincoln Amer. bor. — Pileus 2-2,5 cm. lat.; stipes 3-4 cm. long.

4. *Lepiota? Moulinsii* De Brond. Act. Soc. Linn. Bord. 1851, p. 301, 9 t. VII-IX. — Pileo ex hemisphærico convexo, applanato, centro sæpe depresso, squamoso, margine involuto, sinuoso fibrilloso albescente; stipite sursum attenuato fibrilloso, albo, basi marginato, bulboso, turbinato-radicato, ochraceo; lamellis subemarginato-adnexis, dein liberis, inæqualibus, latis, ventricosis, confertis, margine subdenticulato albido, subochraceis; annulo supero fugaci, floccoso-farinaceo; sporis hyalinis.

*Hab.* in ericetis sabulosis circa Bordeaux. — Magna carnosasubviscosa; edulis.

5. *Lepiota lilacea* Bres. F. Trid. II, p. 5 t. CVI, f. 1. — Pileo car- 10 nosulo e convexo-plano interdum umbonato, e purpureo-lilacino decolorato squamuloso; stipite fistuloso, fibrilloso-furfurello, ex albido carneo-lilaceo; lamellis candidis subconfertis, ventricosis postice rotundato-adpressis, liberis, acie sub lente fimbriata; annulo membranaceo; sporis hyalinis ellipticis, 4-5  $\approx$  2,2,5; basidiis clavatis 20-25  $\approx$  6-8.

*Hab.* in herbidis, pratis etc. gregatim, in agro Tridentino. — Pileus 2,5-3,5 cm. diam.; stipes 2,5-3,5 cm. long., 3 mm. cr.

6. *Lepiota helveola* Bres. — Syll. V, p. 38. — Var. *Barlæ* Bres. F. 11 Trid. II, p. 4. — A typo differt statura graciliore et sporis aliquanto minoribus.

*Hab.* in nemoribus frondosis gregatim in agro Tridentino.

7. *Lepiota ochrospora* Cooke et Massee Grev. XXI, p. 73. — Pileo 12 carnoso, magno, pallido, molli, ovato, dein expanso, umbonato, cuticula in squamulas atras disrupta; contextu disci 2 cm. crasso, ad marginem tenui et substriato; stipite cavo, recto, ad basim bulbosam attenuato, longitudinaliter striato, annulo magno, expanso, mobili; lamellis remotis, ventricosis, sublatis, flavidis, in sicco cinamomeis; sporis ovatis, basi apiculatis, ochraceis 8  $\approx$  6.

*Hab.* ad terram Coast Lands, Guiana (JENMAN). — *Lepiotæ proceræ* similis. Pileus 5-15 cm. lat.; stipes 6-15 cm. long.

8. *Lepiota Schimper* Pat. Rev. Myc. 1891, p. 135. — Pileo campa- 13 nulato-convexo, levi, rubro, squamulis albidis consperso; stipite libero, cylindrico, albido, abrupte in bulbum elongatum, farctum lignosum squamulosum inflato et in radicem fusoideam, glabram durissimam desinente; lamellis albidis, liberis; sporis ovoideis, hyalinis, levibus, 6-8  $\approx$  4-5.

*Hab.* in nidis thermitum in Abyssinia: — Pileus 12 cm. lat., 7 cm. alt.

9. *Lepiota stenophylla* Cooke et Mass. Grey. XXI, p. 35. — Pileo car- 14  
noso, molli, hemisphærico, dein plano, margine incurvo, cuticula  
in squamas depresso-persistentes rupta; stipite elongato, bulboso  
fistuloso, levi, albido, demum brunneo; annulo supero lato, deci-  
duo; lamellis primo linearibus, dein latioribus, liberis, albis, deni-  
que umbrino-tinctis; sporis ellipsoideis,  $12 \approx 7-8$ .

*Hab.* ad terram, Mount Wellington in Queensland Australiæ.

— Pileus usque ad 10 cm. diam.; stipes 15 cm. long., 3 cm. basi cr.

10. *Lepiota avellanea* Clements Univ. Nebrask. Bot. Surv. 1893, II, 15  
p. 41. — Pileo carnoso, sicco, plano, avellaneo, e cuticula lacera  
marginem versus squamis adpressis, brunneis oblecto; stipite sub-  
cavo, bulboso, brunneo-fibrilloso; annulo parvo, carnoso, concolori,  
fixo, infero; lamellis remotis, collario indistincto adnexis, cremeis,  
pro ætate rubentibus; sporis irregulariter ovoideis, uno apice acu-  
tis,  $8-10 \approx 5-6$ .

*Hab.* ad terram in tepidario, Lincoln Sioux county Amer. bor.

— Pileus 5 cm. lat.; stipes 4 cm. long., 8 mm. cr.

11. *Lepiota Schweinfurthii* P. Henn. F. Æthiop. I, pag. 101, t. IV. 16  
f. 4. — Pileo submembranaceo, ovato-explanato, farinoso v. sparse  
squamoso, dein glabro et levi, albo-flavescenti, umbone carnosulo,  
squarroso, margine vix striato, tenui; stipite plus minus curvato,  
basi bulboso-clavato, cavo, farinaceo-pruinoso, glabro, concolori, an-  
nulo membranaceo floccoso, secedente; lamellis liberis, latis, con-  
fertis, albis; sporis  $7-11 \approx 5-7$ .

*Hab.* in Abyssinia pr. Saati. — Pileus 5 cm. diam.; stipes  
usque 10 cm. long. *L. cepæstipiti* affinis.

12. *Lepiota Stuhlmanni* P. Henn. F. Afr. II, p. 36. — Pileo carnoso 17  
e campanulato convexo-expanso, umbone obtuso, brunneo, nudo,  
cute in areolas angulatas membranaceas diffracta, margine imbric-  
ato-squamoso, squamis depresso-persistentibus, membranaceis pallidis, substriato;  
stipite cylindræo, firmo, cavo, levi v. glabro, pallido, basi brun-  
neo, radicato non bulboso, annulo mobili, persistenti, tenui mem-  
branaceo-subcoriaceo; lamellis latis confertis, liberis, pallidis; spo-  
ris  $7-9 \approx 5-6$ .

*Hab.* ad terram pr. Bukoba ad lacum Victoria-Njansa Africæ  
centr. — Pileus 5 cm. diam.; stipes usque ad 5 cm. long., 8 mm. cr.

13. *Lepiota saatiensis* P. Henn. F. Afr. p. 357. — Pileo subcarnoso, 18  
campanulato-explanato, centro umbonato, nudo, levi, glabro, flavo-

carneo, medio venoso-striato, margine albo; stipite farcto, subbulboso, glabro, nudo, annulo membranaceo, albo; lamellis liberis, confertis, latis, albo-flavescentibus; sporis ovoideis 1-guttatis, hyalinis 8-10  $\approx$  5-6.

*Hab.* prope Saati. Abyssiniæ (G. SCHWEINFURTH). — *L. albomussæ* affinis, a qua sporis pileoque omnino glabro diversa.

14. *Lepiota Meleagris* (Sow.) Sacc. Syll. V, p. 36. — Var. *abyssinica* 19  
P. Henn. F. Afr. p. 357. — Pileo 2-7 cm. lat., carnosus, primo ovoideo, dein campanulato, umbonato, albido, squamulis adpressis; stipite usque ad 10 cm. long., 1 cm. cr., basi nodoso; sporis globoso-ellipsoideis v. ovoideis, 1-guttatis; 7-11  $\approx$  6-9.

*Hab.* in Abyssinia. — Fungus et præcipue lamellæ et stipes siccando ad carneum v. sordide rufum vergentes.

15. *Lepiota roseo-alba* P. Henn. F. Afr. p. 357. — Pileo membra- 20  
naceo, campanulato-expanso, umbonato, nudo, glabro, levi, margine striatulo, sericeo-albo, umbone roseo; stipite e farcto fistuloso, tenui, gracili, nudo, glabro, annulato; lamellis liberis, angustis, albo-flavescentibus, marginem pilei vix attingentibus; sporis ellipsoideis, subhyalinis, 7-8  $\approx$  4-5.

*Hab.* prope Ghinda in Abyssinia. — Pileus 2 cm. diam.; stipes 3 cm. long., 3 mm. cr. *L. seminudæ* et *L. Bucknalli* peraffinis.

16. *Lepiota medio-flava* Boud. Bull. Soc. Myc. Fr. 1894, p. 59, Tav. I, 21  
f. 1. — Pileo explanato, longe striato, niveo, minutissime tomentoso-sericeo, centro depresso sed umbone prominente bene limitato flavescente; lamellis albis, liberis, confertis, subrotundatis; stipite fistuloso, albo, supra annulum medium reflexum minute furfuraceo, infra tomentoso et ad basin incrassatam sæpe flavescente; sporis albis, ovato-obtusis, 5-6  $\approx$  3.

*Hab.* ad terram humosam, in calidariis Galliæ. — Gracilis 4-7 cm. alt.; pileus 2-3 cm. diam. *L. cepæstipiti* affinis.

17. *Lepiota brunneo-incarnata* Chod. et Mart. Beiheft. Bot. Centralbl. 22  
1891, pag. 106. — Pileo subglobuloso dein campanulato-conico et umbonato, subcarnoso, squamulis rufescentibus consperso; stipite fistuloso, æquali, pileo concolori; lamellis liberis, inflatis, albis.

*Hab.* ad Chatelaine, Genève Helvetiæ. — Pileus 2-5 cm. diam.; stipes 5-7 cm. long., 2-5 cm. cr.

18. *Lepiota ignicolor* Bres. F. Trid. II, p. 3, t. 106, f. 2. — Pileo 23  
carnosulo e conico-campanulato subexpanso-umbonato, squamuloso v. fibrilloso, glabrescente, sicco, flammeo-fulvo; lamellis confertis, postice rotundatis, liberis, ex albo luteolis, margine fulvescentibus;

stipite æquali, fistuloso, fibrilloso, pileo concolori, basi subradicato fibrilloso; annulo subcortiniformi non evanido; sporis elongatis lateraliter apiculatis 8-10  $\approx$  4-5; basidiis clavatis 30-35  $\approx$  7-8.

*Hab.* in herbidis silvaticis gregatim in agro Tridentino. — Pileus 1-1,5 cm. diam.; stipes 2-2,5 cm. long. 1 mm. cr.; caro pilei luride lutea, stipitis fulva; odor subgravis.

19. *Lepiota albo-citrina* Pat. Bull. Soc. Myc. 1892, p. 46. — Pileo orbiculari, convexo, albo, echinato-pulverulento, tenuissimo; lamellis angustis, subdistantibus, liberis, flavescentibus; stipite gracili vacuo, albo, pruinoso, basi incrassato; annulo tenui, distant, albedo; sporis 10-12  $\approx$  5.

*Hab.* in silvis Tonkin (Bon). — Pileus 1 cm. diam.; stipes 2 cm. long. 2 mm. cr. *L. seminudæ* proxima.

20. *Lepiota luteola* Pat. Bull. Soc. Myc. 1892, p. 46. — Pileo tenui, campanulato-convexo, minimo, pruinoso; lamellis liberis; stipite filiformi, cylindræo; sporis 10-12  $\approx$  7-8.

*Hab.* ad humum in silvis, Tonkin (Bon). — Pileus 5 mm. circ. diam.; stipes 3-5 cm. long. 1 mm. cr. — Fungus gracilis, omnino flavido-citrinus. *L. parvannulatæ* affinis.

21. *Lepiota nigricans* Pat. Bull. Soc. Myc. 1892, pag. 46, — Pileo convexo, umbonato, flavescente, umbone brunneo, orbiculari, margine lobulato; lamellis angustis, flavo-viridibus; stipite cylindræo, cavo, flavescente; sporis basi apiculatis 6-7  $\approx$  4-5.

*Hab.* in nemoribus, Tonkin (Bon). — Pileus 15 mm. diam.; stipes 2-3 cm. long.

22. *Lepiota littoralis* Quél. Champ. Jura Suppl. XVIII, p. 4, t. II, f. 12. — Pileo e campanulato explanato, tenui, e pubescente areolato, ochraceo, umbone flavo; lamellis circa stipitem in annulum coalitis, albo-flavescentibus; stipite nitente, ex albedo incarnato, velo flocculoso; sporis pruniformibus, guttulatis, hyalinis, 5-8  $\mu$ . diam.

*Hab.* ad ligna abiegna Galliæ. — Pileus 15-25 mm. *L. Forquignoni* et *L. clypeolarie* affinis.

23. *Lepiota Magnusiana* P. Henn. Hedw. 1892, pag. 318. — Pileo subcarnoso, tenui e cylindrico campanulato-expanso, papillato-squamoso, albo, ætate centro flavescente, margine striato; stipite fistuloso, æquali, annulo membranaceo-flocculoso, albo dein rubescente; lamellis liberis, confertis, lanceolatis ex albo rubescentibus; sporis 1-2-guttatis e hyalino subcarneis, 7-11  $\approx$  6-8.

*Hab.* in calidariis Horti bot. berolinensis. — *Lepiotæ Cyathæarum* P. Henn. affinis.

24. *Lepiota membranacea* C. et Massee Grev. XXI, p. 36. — Pileo 29  
tenui, membranaceo, pallide cremeo, convexo, dein expanso, um-  
bonato, disco saturatiore; stipite tenui, basi bulboso, cavo; annulo  
remoto, parvo, subfugaci; lamellis liberis, ventricosis, vix confertis;  
sporis minutissimis,  $3 \approx 2$ .

*Hab.* in fragmentis ligneis sepultis, Queensland Australiæ (BAIL-  
LEY) — Pileus 1-2 cm. diam.

25. *Lepiota sociabilis* Britz. Hym. Südbayer, IX, p. 2, f. 260, 270, 478. 30

*Hab.* in Bavaria australi. — Brunneo-rubra dein flavicans;  
sporæ 8-10  $\approx 4$ .

26. *Lepiota carecti* Britz. Hym. Südbayer, VI, p. 7. f. 391. 31

*Hab.* ad sepes in Bavaria australi — Albida, centro flavida;  
sporæ 3-3,5  $\approx 2$ .

**SCHULZERIA** Bres. — Syll. IX, p. 72.

1. *Schulzeria Eyrei* Mass. in Grev. vol. XXII, p. 38. — Pileo camp- 32  
nulato, primitus margine incurvo dein expanso et plano v. revo-  
luto, late umbonato, disco ochraceo, minute granuloso, reliquo pal-  
lido et omnino levi, velo membranaceo, albido, primitus ad mar-  
ginem pilei frustulatum adfixo; lamellis liberis, deorsum attenuatis,  
tenuibus, acie integris, e conferto distantibus, e pallide viridibus  
cyanescentibus; sporis cyaneo-viridibus 4-5  $\approx 2,5$ .

*Hab.* ad terram Britanniae. — Pileus 2,5 cm. lat.; stipes 4-5  
cm. long. 4-5 mm. cr., subflexuosus, æqualis, levis, gracilis, pallidus,  
cavus.

**ARMILLARIA** Fr. — Syll. V, p. 73 et IX, p. 11.

1. *Armillaria viscidipes* Peck 44 Rep. p. 15, tab. 2, f. 1-3. — Pileo 33  
carnoso, compacto, convexo v. fere plano, glabro, albido, leniter  
flavido- v. rubro-flavido-tincto; contextu albo, odore peculiari pe-  
netrante, subalcalino; lamellis angustis, confertis, sinuatis v. sub-  
decurrentibus, albidis; stipite regulari, solido, viscido, infra an-  
nulum angustum, membranaceum dilute flavo-tincto, supra albido;  
sporis 7,5  $\approx 5$ .

*Hab.* in silvis mixtis, Rock City Amer. bor. — Pileus 7,5-15  
cm. lat.; stipes 7, 5-10 cm. long., 12-25 mm. cr.

2. *Armillaria subimperialis* Britz. Hym. Südbayer, IX, p. 2, f. 138, 469. 34

*Hab.* in silvaticis montanis Bavariae austr. — Flavido-rube-  
scens; sporæ 12-14  $\approx 5-6$ .

3. *Armillaria fracticia* Britz. Hym. Südbayer, IX, p. 2, f. 568. 35

8 Hymenomycetæ, Agaricacæ, Leucosporæ, Tricholoma.

*Hab.* in silvaticis Baviaræ australis. — Flavo-rubida; sporæ 4,5  $\mu$ . diam. Affinis *A. robustæ*.

4. *Armillaria subdehiscens* Britz. Hym. Südbay. VIII, p. 1, f. 325, 422. 36

*Hab.* in silvaticis Baviaræ australis. — Albido-rubida; sporæ 6  $\approx$  4,5.

**TRICHOLOMA** Fr. — Syll. V p. 87 et IX p. 13.

1. *Tricholoma circumtectum* Cooke Handb. Brit. Fungi, II ed., p. 332, 37

Ill. tab. 182. — Pileo convexo, carnoso, obtuso-umbonato; disco fulvo, rimuloso, ambitu subolivaceo; margine tomentoso, incurvo; stipite subclavato albido, striato, firmo, solido; lamellis subsinuatis, subconfertis albis; sporis subglobosis 4  $\mu$ . diam.

*Hab.* ad terram in Britannia. — Pileus 5-6 cm. lat., stipes 2 cm. cr. 4 long.

2. *Tricholoma anserinum* (Fr.) van Eeden Fl. Bat. tab. 1514, Ou- 38

dem. Contrib. Fl. myc. Pays-Bas XV, p. 4, *Agar. personatus* var. *anserina* Fr. Epicr. Ed. 2, p. 72. — Pileo glabro, albido; lamellis albidis; stipite glabro, violaceo; sporis pallide roseolis.

*Hab.* ad terram umbrosam, pr. Bois de Harlem, Pays-Bas. — *Trich. nudo* affine.

3. *Tricholoma subrufescens* Ell. et Everh. Proceed. acad. Nat. Sc. 39

Philad. 1893, p. 440. — Pileo carnoso, convexo-plano, læte colorato et rubido tincto, centro saturatiore, innato-fibrilloso, squamoso, non viscoso; contextu albo, margine tenui; lamellis inæqualibus, postice rotundatis, dilutissime carneis rubido-tinctis, modice confertis, 2-3 mm. lat.; stipite fibroso, intus laxiore et dein cavo, sursum subattenuato, extus subsquamuloso, pileo subconcolore; sporis hyalinis, subglobosis, circ. 3,5  $\mu$ . diam.

*Hab.* in silvis mixtis inter folia dejecta, Newfield, New Jersey Amer. bor. — Pileus 4-5 cm. diam.; stipes circ. 8 cm. alt., 1 cm. cr. (infra).

4. *Tricholoma serratifolium* Peck 46 Rep. p. 22. — Pileo carnoso, 40

firmo, convexo v. subplano, sæpe irregulari, sicco, sericeo v. floc-culoso-squamuloso, albo, sæpe centro dilute brunneo- v. flavido-brunneo-tincto; contextu albo v. albido, sapore primo miti, dein acri; lamellis latis, confertis, adnexis, acie serrata v. erosa, albis; stipite brevi, valido, solido, albo; sporis late ellipsoideis v. subglobosis, 5-6  $\approx$  5.

*Hab.* in silvis ad Shokan Amer. bor. — Pileus 5-10 cm.; stipes 6-12 mm. cr.



5. *Tricholoma submaculatum* Peck 46 Rep. p. 22. — Pileo convexo 41  
v. subplano, subinde centro depresso, glabro, brunneolo, interdum  
ferrugineo-tincto, dein obscure maculato; contextu albo; lamellis  
tenuibus, confertis, albis, fractis aurantiacis v. croceis; stipite so-  
lido, sericeo-fibrilloso, albo, basi sæpe decumbente v. radicante;  
sporis minutis, late ellipsoideis v. subglobosis, 4-5  $\approx$  4.

*Hab.* ad marginem silvarum, Shokan Amer. bor. — Pileus 2,5-5  
cm. diam.; stipes 2,5-3,5 long., 6-10 mm. cr.

6. *Tricholoma grande* Peck 44 Rep. pag. 16, t. 3, f. 5-8. — Pileo 42  
crasso, firmo, primo hemisphærico, dein convexo, sæpe irregulari,  
siccò, squamuloso, versus marginem primitus involutum subsericeo  
fibrilloso, albo; contextu griseolo-albo, sapore farinaceo; lamellis  
confertis, postice rotundatis, adnexus, albis; stipite valido, solido,  
fibrilloso, initio sursum attenuato, dein regulari v. basi subincras-  
sato, niveo; sporis ellipsoideis, 8,5-11,5  $\approx$  6.

*Hab.* ad folia dejecta in silvis Carrollton Amer. bor. — Pileus  
10-12,5 cm. diam.; stipes 5-10 cm. long., 2,5-3,5 cm. cr. *T. Co-  
lumbettæ* affinis.

7. *Tricholoma subdurum* Bann. et Peck 44 Rep. pag. 67. — Pileo 43  
primo hemisphærico, dein expanso, albo, demum in atrum ver-  
gente, margine plus minus undulato; contextu duro, tenaci; lamel-  
lis flavis, adnexus, confertis, furcatis; stipite valido, basi incrassato,  
sursum attenuato, albo, solido.

*Hab.* in silvis ad Druid Hill Park Amer. bor. — Stipes 6,5  
cm. alt.

8. *Tricholoma rancidulum* Bann. et Peck 44 Rep. pag. 67. — Pileo 44  
siccò, subinde rugoso-lineato, nitente, albo, disco ochraceo, mar-  
gine striato, subinde sinuato, dein regulari; contextu albo, fragili,  
male olente; lamellis subdecurrentibus, primo fere albis, dein roseis  
v. ochraceo-brunneolis, angustis, fragilibus, confertis, furcatis; sti-  
pite albo v. albicante, basi brunneolo, incurvo, farcto, elastico, sub-  
æquali, levi; sporis 5  $\approx$  4, hyalinis.

*Hab.* gregarium in silvis, Druid Hill Park Amer. bor. — Pi-  
leus 15-20 cm. diam.

9. *Tricholoma magnum* Bann. et Peck 44 Rep. p. 67. — Pileo primo 45  
hemisphærico, dein expanso, levi, sericeo, cremeo, carnoso; con-  
textu albo, firmo; lamellis adnatis, emarginatis, non confertis, pri-  
mo albis, dein pallide incarnatis v. cremeis; stipite primo solido,  
dein cavo, brevi, basi attenuato.

*Hab.* ad Baltimore Amer. bor. — Pileus 15 cm. diam.



10. *Tricholoma maculatescens* Peck 44 Rep. p. 38. — Pileo com- 46  
pacto, spongioso, rubro-brunneo, convexo, dein explanato, obtuso,  
æquali, udo subviscido, siccando rivuloso et brunneo-maculato,  
margine inflexo, lamellas excedente; contextu albidus; lamellis le-  
niter emarginatis, subangustis, cinereis; stipite spongioso-carnoso,  
æquali, basi subinde abrupte angustato, solido, valido, fibrilloso,  
pallido v. albicante; sporis oblongis v. subfusoides, utrinque acu-  
minatis, 1-guttatis,  $7,5 \approx 4$ .

*Hab.* inter folia dejecta in silvis, Ohio Amer. bor. — Pileus  
3,5-7,5 cm. lat.; stipes 5-7,5 cm. long., 12-18 mm. cr. Affine *T.*  
*transmutanti* et *T. flavo-brunneo*.

11. *Tricholoma edurum* Bann. et Peck 44 Rep. pag. 68. — Pileo 47  
initio convexo, obtuso, crasso, carnoso, undulato, hygrophano, de-  
mum expanso, centro leniter depresso, margine primo involuto, inæ-  
qualiter expanso, subinde lobato, primo sordide albo v. alutaceo,  
apice saturatiore, epidermide tenui, facile secedente; lamellis albis  
v. cremeis, adnexus, margine excepto non confertis, a pilei con-  
textu facile secedente; stipite albo, firmo, basi incrassato, apicem  
versus attenuato, subinde subæquali, primo solido, dein farcto;  
sporis subglobosis, hyalinis,  $6-7,5 \mu$ . diam.

*Hab.* gregarium ad Baltimore Amer. bor. — Pileus 10-12,5  
cm. diam.; stipes 7,5-10 cm. long.; sapor mitis, odor gratus.

12. *Tricholoma serratifolium* Peck 41 Rep. p. 22. — Pileo carnoso, 48  
firmo, convexo v. subplano, sæpe irregulari; sicco sericeo v. floccu-  
loso-squamuloso, albo, sæpe centro dilute brunneo v. flavido-  
brunneo-tincto; contextu albo v. albido, sapore primo miti, dein  
acri; lamellis latis, confertis, adnexus, acie serrata v. erosa, albis;  
sporis late ellipsoideis v. subglobosis,  $5-6 \approx 5$ .

*Hab.* in silvis, Shokan Amer. bor. — Pileus 5-10 cm. diam.;  
stipes circ. 2,5 cm. long., 6-12 mm. cr.; habitus *Tr. psammopodi*  
et *Tr. impoliti*.

13. *Tricholoma saponaceum* Fr. — Syll. V 106. — var. *lavedanum* 49  
Roll. Bull. Soc. Myc. 1891, p. 95, t. VI, f. 2. — Pileo albo-to-  
mentosus, squamosus, rubescentis; stipite solido, striato, albido; la-  
mellis albis, spissis, sinuatis; rubescentibus; sporis  $6 \approx 3,5$ .

*Hab.* ad terram in silvis abiignis, in Gallia.

14. *Tricholoma goniospermum* Bres. F. Trid. II, pag. 6, t. 109. — 50  
Pileo carnoso compacto, glabro, sicco, luteo-fuscidulo, margine pri-  
mitus involuto floccosoque; lamellis confertissimis, griseo-fuligineis  
v. lilacino-violaceis v. lilacino-roseis demum lutescentibus; stipite

solido, subæquali, ventricosus v. basi subbulbosus, pruinosis, sursum albidus v. lilacinus, deorsum fusciculus; sporis subquadrangularibus 7-10  $\approx$  5-7; basidiis 35-40  $\approx$  8-9.

*Hab.* in dumetis, ad lacum Benacum (E. ANDREATTA). — Pileus 5-8 cm. diam.; stipes 2-3,5 cm. long., 1-2 cm. cr.; caro luride alba compacta in stipite demum subfibrosa, odore gravi, farinaceo-rancido, sapore dulcidulo.

15. *Tricholoma Schumacheri* Fr. — Syll. V. p. 124. — var. *sordescens* 51 Karst. Hedw. 1892, pag. 292. — A typo differt pileo cinereo, marginem versus leniter adpresso tomentello; stipite a basi æqualiter attenuato, præcipue apice furfuraceo-squamuloso, sordide albo; lamellis albopallentibus; sporis 4-9  $\approx$  2-5.

*Hab.* in acervis acuum Abietum, Mustiala Fennicæ. — Pileus 6-7 cm. lat.; stipes 5-7 alt., basi 3, apice 2 cm. cr.

16. *Tricholoma sculpturatum* Fr. — Syll. V, p. 100. — var. *genevensæ* 52 Chod. et Mart. Beihefte Bot. Centralbl. 1891, pag. 101. — Pileo fragili, initio subhemisphærico, rubro-brunneo-squamuloso, dein conico, expanso, umbonato et demum subdepresso, irregulariter marginato; stipite æquali v. superne attenuato, levi, albo, fistuloso; lamellis angustis usque ad marginem sinuatis, albis.

*Hab.* ad terram Vernier Gallicæ. — Pileus 3-7 cm. diam.; stipes 4-5 cm. long., 1 circ. cr.

17. *Tricholoma indepreusum* Britz. Hym. Südb. VI, pag. 11, fig. 389 53 (*Agaricus*).

*Hab.* in sepibus Bavaricæ australis. — Albidum centro brunneolum; sporæ 6-8  $\approx$  4-5.

18. *Tricholoma selectum* Britz. Hym. Südb. VI, pag. 11, fig. 400 54 (*Agaricus*).

*Hab.* in silvaticis alpinis Bavaricæ austr. — Brunneum; sporæ 10-12  $\approx$  6.

19. *Tricholoma adscriptum* Britz. Hym. Südb. VI, pag. 11, fig. 306 55 (*Agaricus*).

*Hab.* in silvaticis alpinis Bavaricæ austr. — Brunneolum; sporæ 10  $\approx$  6.

20. *Tricholoma tumidosum* Britz. Hym. Südbay. VI, p. 12, fig. 309 56 (*Agaricus*).

*Hab.* in silvis Bavaricæ australis. — Pallide brunneum; sporæ 6  $\mu$ . diam.

21. *Tricholoma farctum* Britz. Hym. Südbayer, VI, p. 12, fig. 394 57 (*Agaricus*).

- 12 Hymenomycetæ, Agaricacæ, Leucosporæ, Tricholoma.  
*Hab.* ad sepes Baviariæ austr. — Flavido-album v. album; sp. 4 = 2.
22. *Tricholoma lautiusculum* Britz. Hym. Südb. VIII, p. 4, fig. 431. 58  
*Hab.* ad sepes Baviariæ austr. — Album, hygrophantum; sporæ 8-10 = 4. Affine *T. subpulverulento*.
23. *Tricholoma subalpinum* Britz. Hym. Südb. VIII, p. 4, fig. 457. 59  
*Hab.* in pascuis alpinis Baviariæ austr. — Sporæ 10-12 = 4-5.  
 Affine *T. strictipedi*.
24. *Tricholoma Allescheri* Britz. Hym. Südb. VIII, p. 3, fig. 453. 60  
*Hab.* ad sepes in silvaticis Baviariæ australis. — Totum albo-cremum; sporæ 6 = 3. Affine *T. albo*.
25. *Tricholoma ignobile* Britz. Hym. Südb. VIII, p. 3, fig. 463. 61  
*Hab.* in silvaticis Baviariæ australis. — Brunnescens; sporæ 10 = 6-8. *T. selecto* affine.
26. *Tricholoma gigantum* Britz. Hym. Südbayer. VIII, p. 3, fig. 412. 62  
*Hab.* in silvaticis Baviariæ australis. — Sporæ 8-10 = 6. *T. Columbellæ* affine.
27. *Tricholoma subimmundum* Britz. Hym. Südbayer IX, p. 3, f. 483. 63  
*Hab.* in silvaticis Baviariæ australis. — Albido-fuscescens; sporæ 6-7 = 3. Affine *T. immundo*.
28. *Tricholoma cuneiforme* Britz. Hym. Südbayer IX, p. 3, f. 491, 497. 64  
*Hab.* in silvaticis Baviariæ australis. — Album; sporæ 6-8 = 4.  
 Affine *T. inamæno*.
29. *Tricholoma tenuisporum* Britz. Hym. Südbayer IX, p. 3, f. 577. 65  
*Hab.* in silvaticis Baviariæ australis. — Flavo-brunneum; sporæ 10-12 = 4-5. *T. cerino* affine.
30. *Tricholoma subrancidum* Britz. Hym. Südbayer IX, p. 3, f. 579. 66  
*Hab.* in silvaticis Baviariæ australis. — Sordidum, centro saturatius; sporæ 10 = 4-5. Affine *T. graveolenti*.
31. *Tricholoma gravabile* Britz. Hym. Südbayer IX, p. 3, f. 575. 67  
*Hab.* in Bavaria australi. — Læte brunneum; sporæ 8 = 6-7.  
*T. duracino* affine. Edule.
32. *Tricholoma transforme* Britz. Hym. Südbayer IX, p. 3, f. 546. 68  
*Hab.* in fagetis Baviariæ austr. — Flavido-brunneum; sporæ 8 = 6. *T. adscripto* affine.
33. *Tricholoma subæquale* Britz. Hym. Südbayer IX, p. 3, f. 582. 69  
*Hab.* in silvaticis Baviariæ austr. — Albo-flavidum; sporæ 5 = 3.  
 Affine *T. Cnistæ*.
34. *Tricholoma luridatum* Britz. Hym. Südbayer IX, p. 2, f. 490. 70  
*Hab.* in silvaticis Baviariæ australis. — Griseo flavum; sporæ 8-10 = 6. Affine *T. lurido*.

35. *Tricholoma vepallidum* Britz. Hym. Südbayer IX, p. 3, f. 419. 71  
*Hab.* ad sepes Baviaræ australis. — Album centro carneolum; sporæ 8-10  $\approx$  5-6. *Trich. scalpturato* affine.
36. *Tricholoma suevicum* Britz. Hym. Südbayer IX, p. 4, f. 267, 493. 72  
*Hab.* in silvis Baviaræ australis. — Brunneo-flavidum; sporæ 8  $\approx$  4-6. Affine *Trich. jurano*.
37. *Tricholoma illecebrosus* Britz. Hym. Südbayer IX, p. 2, f. 571. 73  
*Hab.* in muscosis silvaticis Baviaræ austr. — Albidum, centro olivaceo-atrum; sporæ 8-9  $\approx$  6-7. Affine *T. coryphæo*.
38. *Tricholoma densilamellatum* Britz. Hym. Südbayer X, p. 160, f. 645. 74  
*Hab.* in silvaticis Baviaræ australis. — Albido-flavum; sporæ 8  $\approx$  5-6. Affine *T. subpulverulento*.
39. *Tricholoma mollicellum* Britz. Hym. Südbayer X, p. 160, f. 646. 75  
*Hab.* in silvaticis Baviaræ australis. — Ochraceo-flavidum; sporæ 8  $\approx$  4. Affine *T. subpulverulento*.
40. *Tricholoma luteolospermum* Britz. Hym. Südbayer X, p. 160, f. 647. 76  
*Hab.* in pascuis et silvaticis Baviaræ australis. — Brunneo-rubescens; sporæ 8  $\approx$  4-6 hyalino-flavidæ.
41. *Tricholoma enudatum* Britz. Hym. Südbayer X, p. 160, f. 576, 627. 77  
*Hab.* ad sepes Baviaræ australis. — Flavobrunneum; sporæ 8  $\approx$  6, hyalinæ. *T. immundo* affine.
42. *Tricholoma montanum* Britz. Hym. Südbayer X, p. 160, f. 638. 78  
*Hab.* in silvaticis Baviaræ austr. — Sordide flavobrunneum, saturatius maculatum; sporæ 8  $\approx$  4-5, subrhombæ. *T. oreino* affine.

**CLITOCYBE** Fr. — Syll. V, p. 141 et IX, p. 18 — Cfr. Peck 44 Rep. p. 64.

1. *Clitocybe revoluta* Peck 46 Rep. p. 23. — Dense cæspitosa; pileo 79  
convexo v. subplano, glabro, udo albido margineque leniter striatulo, sicco albo, margine tenui vulgo irregulariter revoluta; lamellis tenuibus, angustis, confertis, adnatis v. subdecurrentibus; stipite glabro, juniore solido, demum medullosa v. subcavo, albido, sporis subglobosis, 4-5  $\mu$ . diam.  
*Hab.* in silvis, Alcove ad Albany county Amer. bor. — Pileus 2,5-7,5 cm. lat.; stipes 5-7,5 cm. long., 6-10 mm. cr.
2. *Clitocybe albidula* Peck 46 Rep. p. 23. — Pileo tenui, primo con- 80  
vexo, dein umbilicato v. centro depresso, glabro, hygrophano, udo pallide griseolo-brunneo et margine minute striatulo, sicco albido;

14. Hymenomycetæ, Agaricacæ, Leucosporæ, Clitocybæ.

lamellis confertis, adnatis v. leniter decurrentibus, sordide albis; stipite brevi, glabro v. subpruinoso, cavo, pileo concolori; sporis minutis, ellipsoideis, 4-5  $\approx$  2,5-3.

*Hab.* sub Pinis, Delmar Amer. bor. — Pileus circ. 2,5 cm. lat.; stipes 2,5 long., 2-3 mm. cr. *C. candicanti* affinis.

3. *Clitocybe pachycephala* Mass. Journ. of Bot. 1891, p. 1, t. 300, 81

f. 11-13 (*Agaricus*). — Pileo primo convexo, centro dein depresso, glabro, micantè, maturo margine minute striato, pallide griseo, marginem versus expallente, compacto, margine tenuiore; lamellis albis, tenuibus, confertis, leniter decurrentibus; stipite incurvo, deorsum subattenuato, cavo, albo, levi; sporis ellipsoideo-oblongis, basi apiculo oblique, minuto præditis, hyalinis, 7-8  $\approx$  4.

*Hab.* ad terram, Madagascar (BARON). — Solitaria v. 2-3-gregaria; pileus 2-3 cm. diam.; stipes 2-3 cm. long., 3 mm. cr.

4. *Clitocybe aquatica* Bann. et Peck 44 Rep. p. 68. — Pileo primo 82

obtusio, dein expanso, pallide ochraceo, sæpe carneo, centro depresso, squamis floccosis evanescentibus oblecto, margine undulato striatuloque; lamellis angustis, decurrentibus, non confertis, furcatis, ochraceis; stipite farcto, elastico, basi attenuato, apice incrassato et ob lamellas descendentes striato, concolore; sporis 8  $\approx$  4,5.

*Hab.* dense cæspitosa in uliginosis ad Druid Hill Park Amer. bor. — Stipes 15-17,5 cm. long.

5. *Clitocybe fuscipes* Peck 44 Rep. p. 71. — Pileo tenui, late con- 83

vexo v. plano, umbilicato, glabro, udo albido et striatulo, sicco nivo, odore saporeque farinaceis; lamellis fere planis, subremotis, adnatis v. leniter decurrentibus, albis; stipite æquali, glabro v. apice subfarinoso, cavo, udo fusco, sicco pallidiori; sporis globosis, 5-6.

*Hab.* sub Pinis, Carrollton Amer. bor. — Pileus 8-16 mm. lat.; stipes circ. 2,5 cm. long.

6. *Clitocybe villis* Karst. Symb. Myc. Fenn. XXXII, p. 1. — Pileo 84

carnoso, tenui e convexo planiusculo, umbonato, glabro, pellucide striato, livido, siccitate pallido; stipite æquali, flexuoso, glabro, apice albo-furfuraceo, umbrino, siccitate livido; lamellis adnatis, dense decurrentibus, confertis, pallidis, angustis; sporis 2,5-3,5  $\approx$  2.

*Hab.* ad muscos in silvis abiegnis Fennicæ. — Pileus 3 cm. lat.; stipes 7-8 cm. long., 1,5 mm. cr.

7. *Clitocybe Arnoldi* Boud. Bull. Soc. Myc. Fr. 1894, p. 60, pl. I, 85

f. 2. — Pileo depresso, tenui, disco non umbonato, e depresso infundibuliformi, undulato, subtomentoso, minute squamuloso, ochra-



ceo-lateritio; lamellis albidis subconfertis, angustis, latis, vix flavescens; stipite lateritio, subæquali, deorsum fibrilloso, intus farcto; sporis hyalinis 9-11  $\approx$  5-6.

*Hab.* ad terram Galliæ (ARNOLD). — Pileus 2-4 cm. diam.; stipes 4-7 cm. alt. *C. sinopiceæ* affinis.

8. *Clitocybe occulta* Cooke Illustr. Supp. t. 1184, Grev. XIX, p. 40. 86

— Pileo carnoso, convexo, dein plano et depressò, æquali, levi, innato-viscido, pallido, circa discum fumoso, margine albedo; stipite æquali v. sub pileo leniter incrassato, solido, albo, striato-fibrilloso, sæpe incurvo; lamellis subremotis, latis, adnatis, subdecurrentibus, vix emarginatis, albis; contextu albo, fibrilloso.

*Hab.* gregaria ad terram, Chingsford Brit. — Pileus 5-7 cm. diam.; stipes 4-6  $\approx$  1 cm.; lamellis usque ad 5 mm. lat. Affinis *Cl. coffeateæ*.

9. *Clitocybe alpina* Vuelliot Bull. Soc. bot. Lyon. t. XVII (1890) p. 287. 87

— Tota alba; pileo nitido, umbonato-convexo; lamellis confertis, subdecurrentibus, attenuatis; stipite farcto, basi inflato; sporis subellipsoideis, uni-biguttatis, 6  $\approx$  4.

*Hab.* in herbosis alpinis Grand-Som et Charmand-Som Galliæ. — Teste Quélet videtur eadem species ac *Agaricus tornatus* Fr. seu forma *Omphaliæ cerussatæ* Fr.

10. *Clitocybe gracilipes* Britz. Hym. Südb. VI, p. 14, fig. 296. 88

*Hab.* in silvaticis Baviaræ australis. — Griseo-brunea; sporæ 6-8  $\mu$ . diam., asperulæ.

11. *Clitocybe frustatoria* Britz. Hym. Südb. VI, p. 13, f. 314 (Agar.). 89

*Hab.* ad terram hortorum Baviaræ australis. — Flavobrunnea; sporæ 6  $\approx$  4.

12. *Clitocybe brumosa* Britz. Hym. Südbay. VI, p. 13, f. 359 (Agar.) 90

*Hab.* in silvaticis Baviaræ australis. — Albicans; sporæ 6-8  $\approx$  3-4.

13. *Clitocybe immarcescens* Britz. Hym. Südb. VI, p. 11, f. 397. 91

*Hab.* ad radices arborum Baviaræ australis. — Albido-brunnea; sporæ 6-8  $\approx$  4-5.

14. *Clitocybe subgilva* Britz. Hym. Südb. VIII, p. 4, fig. 197. 92

*Hab.* in silvis Baviaræ australis. — Differt a *C. gilva* lamellis latoribus; sporis majoribus, 8-10  $\approx$  3-4.

15. *Clitocybe alpestris* Britz. Hym. Südb. VIII, p. 4, f. 442. 93

*Hab.* in pascuis montanis Baviaræ australis. — Sporæ 3-4  $\mu$ . diam. rugulosæ. *C. laccatæ* affinis.

16. *Clitocybe flavo-fusca* Britz. Hym. Südb. VIII, p. 4, f. 441. 94

*Hab.* in pascuis montanis Baviaræ australis. — Albido-flavo fusca; sporæ 8  $\approx$  5, leves. *C. alpestri* affinis.

- 16 Hymenomyceteæ, Agaricaceæ, Leucosporæ, Clitocybe..
17. *Clitocybe vernifera* Britz. Hym. Südb. VIII, p. 4, fig. 465. 95  
*Hab.* in paludosis Bavarizæ australis. — Pallide ochroleuca; sporæ  $8 \approx 4$ . *C. geotropæ* affinis.
18. *Clitocybe lentata* Britz. Hym. Südb. IX, p. 4, f. 595. 96  
*Hab.* in silvaticis Bavarizæ australis. — Tota mellea; sporæ  $8 \approx 4$ . *C. lentiginosæ* affinis.
19. *Clitocybe attracta* Britz. Hym. Südb. IX, p. 5, f. 204, 509. 97  
*Hab.* in silvaticis Bavarizæ australis. — Pallide flavo-rubescens, olens. *C. inversæ* affinis.
20. *Clitocybe incorporata* Britz. Hym. Südbayer IX, p. 5, f. 515. 98  
*Hab.* ad sepes Bavarizæ australis. — Pallide brunnea. *C. Tubæ* affinis.
21. *Clitocybe simplaria* Britz. Hym. Südbayer IX, p. 5, f. 299, 517. 99  
*Hab.* in silvaticis Bavarizæ australis. — Pallide flavo-brunnea; sporæ  $4 \approx 2-2.5$ . *C. mortuosæ* affinis.
22. *Clitocybe sevocata* Britz. Hym. Südbayer IX, p. 5, f. 594. 100  
*Hab.* in silvaticis fagineis Bavarizæ australis. — Griseo-brunnea; sporæ echinulatæ  $5-7 \mu$ . diam. *C. echinosporæ* affinis.
23. *Clitocybe echinosperma* Britz. Hym. Südbayer IX, p. 6, f. 512, 518. 101  
*Hab.* in silvaticis Bavarizæ australis. — Flavø brunnea; sporæ echinulatæ  $6-8 \mu$ . diam. *C. echinosporæ* affinis.
24. *Clitocybe umbrino-marginata* Britz. Hym. Südbayer IX, p. 4, f. 504, 538. 102  
*Hab.* in Bavaria australi ad caudices. — Pallide brunnea, centro brunneo-violacea; spor.  $8-12 \approx 4-6$ . *C. sociali* affinis.
25. *Clitocybe luridipes* Britz. Hym. Südb. IX, p. 4, f. 513. 103  
*Hab.* in silvaticis Bavarizæ australis. — Centro brunneo-grisea ceterum pallida; sp.  $6 \approx 3$ . *C. rivulosæ* affinis.
26. *Clitocybe tumidosa* Britz. Hym. Südbayer IX, p. 4, f. 516. 104  
*Hab.* in silvaticis Bavarizæ australis. — Spor.  $6 \mu$ . diam.
27. *Clitocybe turmaria* Britz. Hym. Südbayer IX, p. 4, f. 506. 105  
*Hab.* in silvaticis Bavarizæ australis. — Griseo-brunnea; sporæ  $6 \approx 4-5$  v.  $4-6 \mu$ . diam. *C. gregatæ* affinis.
28. *Clitocybe pallidospora* Britz. Hym. Südbayer IX, p. 5, f. 590. 106  
*Hab.* in Bavaria australi. — Tota pallide ochracea v. isabellina; sporæ  $5-6 \approx 2-3$ . *C. expallenti* affinis.
29. *Clitocybe totmoda* Britz. Hym. Südbayer IX, p. 5, f. 598. 107  
*Hab.* in Bavaria australi. — Brunneo-rubra; sporæ  $8-10 \approx 4$ . *C. pruinosa* affinis.
30. *Clitocybe vicinalis* Britz. Hym. Südbayer IX, p. 5, f. 591. 108

- Hab.* in silvaticis Baviariæ australis. — Flavo-rubro-brunnea; sporæ 6-7  $\approx$  3-4. *C. pruinosa* affinis.
31. *Clitocybe ambiformis* Britz. Hym. Südbayer IX, p. 5, f. 519. 109  
*Hab.* in silvaticis Baviariæ australis. — Tota brunneolo-carnea; sporæ 7-8  $\approx$  3,5-4. *P. ambigua* affinis.
32. *Clitocybe guttato-marmorata* Britz. Hym. Südbayer VI, pag. 12 110  
*Agar. extenuatus*) fig. 347 et 629 et X, p. 161.  
*Hab.* in silvaticis Baviariæ australis. — Dilute ochracea, obscurius maculata; sporæ 6-8  $\approx$  4. *C. gilva* affinis sed sporæ majores.
33. *Clitocybe ambifaria* Britz. Hym. Südbayer IX, p. 5, f. 615. 111  
*Hab.* in silvaticis Baviariæ australis. — Cinerescens, *C. ambigua* affinis.
34. *Clitocybe situata* Britz. Hym. Südbayer IX, p. 4, f. 507. 112  
*Hab.* in silvaticis Baviariæ australis. — Luteo-brunnea; sporæ non descriptæ. *C. sinopica* affinis.
35. *Clitocybe odorabilis* Britz. Hym. Südbayer IX, p. 4, f. 597. 113  
*Hab.* in silvaticis Baviariæ australis. — Tota mellea; sporæ 6-7  $\approx$  3-4. *C. lentiginosa* affinis.
36. *Clitocybe verrucipilea* Britz. Hym. Südbayer X, p. 161, f. 649. 114  
*Hab.* in silvis pineis Baviariæ austr. — Albido-rubescens; sporæ 4  $\approx$  3. *C. amara* affinis.
37. *Clitocybe albido-gilva* Britz. Hym. Südbayer IX, p. 4, f. 553. 115  
*Hab.* in silvaticis Baviariæ australis. — Albido-flavida, roseo-maculata; sporæ 8-9  $\approx$  4-5. *C. amara* affinis.

**COLLYBIA** Fr. — Syll. V. p. 200, IX, p. 27. — Cfr. Peck 44 Rep. p. 64.

1. *Collybia muscipula* Cooke et Mass. in Grev. V. 22, p. 36. — Pileo 116  
 carnoso, umbonato, levi, murino v. brunneo, corrugato, contextu tenui, coriaceo, margine subincurvato; stipite elongato, farcto, radicato, longitudinaliter striato, sæpe contorto; lamellis late adnatis, latissimis, parum confertis; sporis albidis, subglobosis 14  $\mu$ . diam.  
*Hab.* ad terram Britanniae. — Pileus 7-10 cm. lat.; stipes 16-20 cm. long., 1 cm. cr. *Collybia radicata* affinis.
2. *Collybia ochroleuca* Peck 46 Rep. p. 24. — Pileo tenui, convexo, 117  
 dein umbilicato v. centro depresso, glabro, pallide ochraceo, contextu albido; lamellis latis, subdistantibus, postice rotundatis v. emarginatis, albidis; stipite valido, gracili, glabro, farcto v. cavo, pileo concolore; sporis ellipticis, 6-7,5  $\approx$  5.  
*Hab.* in silvis Amer. bor. — Pileus 12-24 mm. lat.; stipes 2,5 cm. long. 2 mm. cr. *C. esculenta* affinis.



3. *Collybia ratticauda* Fayod in Verh. bot. Ver. Brand. 1890, p. 228. 118

— Pileo carnoso, conico-expanso, glabro, humido, regulari, albescenti; stipite ventricosus-fusiformi, albido, in radicem obscure caudæformem terminato; lamellis confertissimis, adnexis, postice attenuatis, albis.

*Hab.* ad terram in caudicibus arborum (?) pr. Olukonda Africae.

— Stipes 7 cm. long.

4. *Collybia siticulosa* Bann. et Peck 44 Rep. p. 69. — Pileo centro 119

carnoso, margine tenui, primo bene umbonato, dein depresso, margine initio involuto, ochraceo; lamellis liberis, non remotis, sordide albis v. pallide cremeis; stipite cartilagineo, cavo, deorsum contorto, pallidissime ochraceo.

*Hab.* ad Baltimore Amer. bor. — Tenax, rigens, hinc marasmio-idea.

5. *Collybia subrigua* Bann. et Peck 44 Rep. p. 69. — Pileo convexo, 120

dein expanso, subinde late umbonato, dein centro depresso, disco atro-brunneo, margine ochraceo, hygrophano, sicco micante; contextu albo, margine tenui, fragili; lamellis albis, angustis, adnatis, furcatis, confertis, demum sordide albis; stipite particulis filamentosis farcto, subæquali, basi obtuso, apice compresso-contorto, ad lamellas striato, pallido; sporis  $8,5 \approx 5,5$ .

*Hab.* ad terram, Carroll county Amer. bor.

6. *Collybia expallens* Peck 44 Rep. p. 18. — Pileo tenui, late 121

convexo, dein plano, centro depresso, glabro, margine tenui, udo aqueose brunneo striatuloque, sicco albido; contextu sicco albido, odore farinaceo; lamellis latiusculis, subremotis, postice rotundatis, adnexis, albido cinerescentibus v. flavidis; stipite brevi, cavo, regulari v. basi subincrassato; sporis late ellipsoideis,  $5 \approx 4$ .

*Hab.* inter folia pinea dejecta in silvis ad Salamanca Amer. bor. — Pileus 2,5-5 cm. lat.; stipes circ. 2-4 mm. cr.

7. *Collybia disciformis* Wettst. Bot. Zeitschr. 1885, p. 153. — Pileo 122

initio campanulato, margine subinvoluto, mox disciformi, plano v. convexulo, medio plus minusve umbilicato, carnoso, glabro v. subpulverulento, albicante; stipite centrali, æquali, curvato, cartilagineo, firmo, glabro; lamellis densis, integris inæqualibus, albidis; sporis levibus, hyalinis, 1-2  $\mu$ . long. («?»).

*Hab.* solitaria ad truncos humidos in fodina plumbea, Deutsch-Feistritz Stiriae.

8. *Collybia bibulosa* Massee in Grev. XX, p. 95. — Pileo carnoso, 123

subgloboso, obtuso, dein expanso, levissimo, æquali, udo atro-iridi,

sicco pallide griseo v. albedo; stipite cartilagineo, spongioso, farcto, demum imperfecte cavo, sursum attenuato, minute fibrilloso-striato, pallide brunneo, basi atro; lamellis angustis, confertis tenuibus, margine subundulatis, fragilibus, subadnexis, a pileo linea atra cartilaginea separatis; sporis subpiriformibus,  $6 \approx 3$ .

*Hab.* ad caudices in Burnham Beeches Britanniae. — Fungus 2-4-gregarius, valde bibulus; pileus 2,5-5 cm. diam.; stipes 3,5-5 long., 1,5 cm. basi cr. *Coll. butyraceæ* affinis.

9. *Collybia nitellina* (Fr.) Sacc. Syll. V. 227. — Var. *latifolia* Karst. 124  
Hedw. 1892, p. 292. — Lamellis ventricosus v. antice latoribus, pallidis, in fulvum levissime vergentibus, crassiusculis 2-3 mm. lat. a typo (Fr. Icon. t. 65, f. 2) tantum discedit.

*Hab.* ad terram arenosam in pineto pr. Mustiala Fenniae.

10. *Collybia velutipes* Curt — Syll. V, p. 212. — Var. *nana* Brun. 125  
Glan. mycol. Ser. 3<sup>e</sup> herb. 1892-93, p. 1. — Pileo flavo-alutaceo: stipite gracili.

*Hab.* ad truncos vetustos, Rochefort in Gallia. — Pileus 1 cm. v. ultra diam.; stipes 1,5-2 cm. long.

11. *Collybia pseudoplatyphylla* Britz. Hym. Südbay. VIII, 4 fig. 216. 126

*Hab.* in silvis montanis Bavariae australis. — Albido-brunnescent; sporæ 8-10  $\approx$  5-6.

12. *Collybia luteo-rubescens* Britz. Hym. Südb. VI, p. 13. fig. 335 127  
(*Agaricus*).

*Hab.* in silvis montanis Bavariae australis. — Tota flavo-rubescens; sporæ 8  $\approx$  4.

13. *Collybia subbutyracea* Britz. Hym. Südbayer, IX p. 6, f. 530. 128

*Hab.* in silvaticis Bavariae australis. — Albida, centro flavida; sporæ 3-4  $\approx$  2. *C. butyraceæ* affinis.

14. *Collybia orbispora* Britz. Hym. Südb. VI, p. 12, f. 388 (Agar). 129

*Hab.* in silvaticis Bavariae australis. — Brunneo-grisea; sporæ 8-10  $\mu$ . diam.

15. *Collybia macida* Britz. Hym. Südbayer, IX, p. 6, f. 601. 130

*Hab.* in silvaticis Bavariae australis. — Tota aurantiaca; sporæ 4  $\approx$  2. *C. nitellinae* affinis.

16. *Collybia aquosipes* Britz. Hym. Südbayer IX, p. 6, f. 545, 547. 131

*Hab.* ad caudices Bavariae australis. — Brunneola, centro obscurior; sporæ 6  $\approx$  4.

17. *Collybia miseranda* Britz. Hym. Südbayer, IX, p. 6, f. 524. 132

*Hab.* in silvis Bavariae australis. — Sordide flavo-grisea; sporæ 7-8  $\approx$  3-4. *C. miseræ* affinis.

**MYCENA.** Fr. — Syll. V, p. 251, IX, p. 34.

1. *Mycena strobilinoidea* Peck 45 Rep. p. 23. — Pileo tenui, sub-  
campanulato, obtuso, glabro, lucente-cinnamomeo; lamellis albi-  
dis acie rufescentibus; stipite brevi, glabro, basi fulvo-villoso, pi-  
leo pallidiore.

*Hab.* ad Abietem subalpinam, Amer. bor. — Pileus 8-12 mm.  
lat.; stipes 2,5 cm. long. *M. strobilinæ* affinis.

2. *Mycena hemisphaerica* Peck 46 Rep. p. 24. — Pileo tenui, firmo,  
hemisphaerico, glabro, hygrophano, brunneo et humecto striatulo,  
siccò, griseo v. griseo-brunneo; lamellis subdistantibus, arcuatis,  
adnatis, albo-lividis; stipite glabro, cavo, livido-albo; sporis late el-  
lipticis 4-5  $\approx$  3.

*Hab.* ad truncos in silvis, Amer. bor. — Pileus 10-16 mm.  
lat.; stipes 2,5-3 cm. long., 2-2,5 mm. cr. *M. galericulatae* affinis.

3. *Mycena olida* Bres. Fung. Trid. I, p. 73, tab. 79, fig. 1. — Pileo  
submembranaceo, conico-campanulato, obtuso, dein expanso-umbo-  
nato, udo-striato, glabro e flavido expallente-stramineo v. albido;  
lamellis subconfertis attenuato-adnatis, uncinato-decurrentibus, can-  
didis, ætate lutescentibus, venoso-conjunctis; stipite fistuloso, hya-  
lino pellucido e pruinoso albescente, basi radicato-strigoso; sporis  
8-9  $\approx$  6.

*Hab.* ad truncos Mori albæ et Populi pyramidalis in agro Tri-  
dentino. — Pileus 1-2 cm. diam. *M. levigatae* affinis.

4. *Mycena cæcio-livida* Bres. Fung. Trident. I, p. 73, t. 74, f. 2. —  
Pileo submembranaceo, e convexo expanso, glabro, hygrophano,  
striatulo, incarnato-livido; lamellis ventricosis, postice rotundato  
subliberis, e roseolo livido-incarnatis, venoso-conjunctis; stipite  
brevis, fistuloso, e pruinato glabrescente, tereti v. compresso cæru-  
leo-livido; sporis 8-10  $\approx$  5-6.

*Hab.* ad cortices muscosas Laricis, gregatim in agro Tridentino.  
— Pileus 8-12 mm.; stipes 1-1,5 cm. long., 3-4 mm. cr. *M. zephiræ*  
Fr. affinis.

5. *Mycena acuta-conica* Clements. Univ. Nebr. Bot. Surv. 1893, II, p. 38. —  
Pileo submembranaceo, persistenter conico, acuto, viscoso,  
levi, læte flavo; stipite longo, æquali, levi, flavido-brunneo; lamel-  
lis liberis, linearibus, in sicco saturate ochraceis; sporis oblongo-elli-  
psoideis, 12  $\approx$  7-8.

*Hab.* in sabulosis ad Squaw canon Amer. bor. — Pileus 2,5 cm.  
lat., 3 cm. alt.; stipite 6-7 cm. long.

6. *Mycena amicta* Fr. — Syll. V, 284. — Var. *truncata* Karst.

Symb. Myc. Fenn. XXXII, p. 2. — Pileo membranaceo, conoideo-campanulato, vix umbonato, striato, sicco, glabro, albidō (non candido) tecto; stipite æquali, subtenaci, flaccidō, pallescente v. lividō, flocculoso-pruinoso, apice pruinato, basi radiciformi, tomento tenui, dein cœrulescente obducto; lamellis stipitem attingentibus, adnatis subdistantibus, adscendentibus, linearibus, pileo concoloribus.

*Hab.* ad terram inter muscos in silvis acerosis Fennicæ. — Pileus 1 cm. diam.; stipes 6 cm. long., 2 mm. cr. A typo differt radice stipitis brevi, obtusa, non tortuosa, tomento obvolutâ.

7. *Mycena fimicola* Karst. Symb. Myc. Fenn. XXXII, p. 3. — Pileo 135 submembranaceo, e cónico-convexo planiusculo, umbonato v. papillato, umbone striato, glabro, ochraceo-helvolo, sicco, alutaceo; stipite e farcto cavo, æquali, flexuoso, tenaci, cartilagineo, glabro, superne albo-pruinoso, ferrugineo dein badio, subnitente; lamellis adnatis, secedentibus, confertis, subventricosis, ex albidō alutaceis; sporis 6-9  $\approx$  3-4.

*Hab.* supra fimum equinum, Mustiala Fennicæ. — Pileus 0,5-1 cm. diam.; stipes 2-3 cm. long., 1-1,5 cm. cr. *M. puræ* affinis.

8. *Mycena subplicosa* Karst. Symb. Myc. Fenn. XXXII p. 2. — Pi- 140 leo membranaceo, e campanulato convexo, obtuso v. obsolete umbonato, sulcis distantibus fere plicatus, glabro, cinereo-pallido, vix hygrophano; stipite rigido, fragili, æquali, levi, nitente, nudo, hyalino v. livido-pallido, sicco, basi strigoso, non radicato; lamellis adnatis, distantibus, subventricosis, albidis, integris, unicoloribus; sporis ellipsoideis 6-8  $\approx$  3-5.

*Hab.* ad acus et ramulos Pini Mustiala Fennicæ. — Pileus 1-2 cm. diam.; stipes 4-5 cm. long., 1-1,5 mm. cr.

9. *Mycena Gynerii* Pat. Rev. Myc. 1891, p. 136. — Pileo campanu- 141 lato, convexo, plano centro proeminente, levi v. vix striatulo ad marginem, uniformiter brunneo, integro v. lacerato-lobato marginibus gracillimo; lamellis numerosis, tenuibus, angustis, apicem stipitis attingentibus; stipite cylindraco, æquali, apice attenuato.

*Hab.* ad culmos florales *Gynerii argentei*, Brasilia. — Pileus 8-10 cm. diam.; stipes 5-15 cm., 5-8 mm. cr.

10. *Mycena viridi-marginata* Karst. Hedw. 1892, p. 218. — Pileo 142 membranaceo, e campanulato expanso-umbonato, sulcato-striato, glabro, subfusco-melleo, non hygrophano; stipite rigido fragili, æquali, glabro, melleo-pallente, basi non radicante; lamellis distantibus lanceolatis albo glaucescentibus; sporis ellipsoideis, 7-11  $\approx$  6-7.

*Hab.* in trunco putri Pini, Mustiala Fennicæ. — Pileus 2,5 cm. diam.; stipes 2 cm. long. *M. luteolo rufescenti* affinis.

11. *Mycena luteolo-rufescens* Karst. Hedw. 1892, p. 218. — Pileo 143  
membranaceo, disco carnosulo, subcampanulato sæpe obliquo, striato  
virgatulo luteo-fuscescente, disco rufescente, opaco; stipite fistu-  
loso, rigido fragili, glabro, basi incrassato, striguloso, luteolo; la-  
mellis attenuato adnatis, distantibus, albo-glauciscentibus; sporis  
8-13 = 7-9; cystidiis clavatis 25-30 = 8-9.

*Hab.* in ligno juniperino et ad terram, Mustiala Fennicæ. — Pi-  
leus 2 cm. diam.; stipes usque ad 10 cm. long., 2-3 mm. cr. *M.*  
*rubro-marginatæ* affinis, cujus forte varietas.

12. *Mycena simillima* Karst. Fragm. Myc. Fenn. XXXII, Hedw. 1891, 141  
p. 246. — Pileo submembranaceo, conico-campanulato, levi, sicco, gla-  
bro livido-vel sordide pallido; stipite fragili, polito, levi, glabro, basi  
curvato-radicato (circiter 10 cm. alt.); lamellis adnatis emargi-  
nato-decurrentibus, confertis, albis vel levissime in carneum ver-  
gentibus.

*Hab.* ad et juxta truncos putrescentes prope Mustiala Fennicæ  
— *Mycenæ galericulatæ* simillima, sed fragilis nec non pileo pal-  
lescente, levi, circ. 2 cm. lat.; stipes circ. 10 cm. alt.

13. *Mycena pura* (Pers.) Sacc. Syll. V, 256 — var. *multicolor* Bres. F. 145  
Trid. II, p. 9. t. 114. — Pileo vivide cæcio-cæruleo, umbone fulvo,  
margine striato; stipite æquali, roseo-purpureo basi lutescente, to-  
mentoso; lamellis latis, sinuato-adnatis, venoso-conjunctis, cæsiis;  
sporis cylindræis 7-9 = 4-5; basidiis clavatis 25-32 = 6-8.

*Hab.* in silvis agri Tridentini. — Pileus 3,5-5 cm. diam.; stipes  
7-8 cm. long., 4 mm. cr.; caro raphaniolens, insipida.

14. *Mycena vitreata* Britz. Hym. Südb. VIII, p. 5, fig. 449. 146

*Hab.* in silvaticis Bavaricæ australis. — Sporæ 10-12 = 5. *M. vi-*  
*treæ* affinis.

15. *Mycena vulgata* Britz. Agar. Südb. VIII, p. 5, fig. 450. 147

*Hab.* in silvaticis Bavaricæ australis. — Albida; sporæ 8-10 = 4.  
*M. vulgari* affinis.

16. *Mycena levidensis* Britz. Hym. Südb. VIII, p. 5, fig. 447. 148

*Hab.* ad caudices Bavaricæ australis. — Sporæ 8-9 = 4-5. *M. le-*  
*vigatæ* affinis, ochroleuca.

17. *Mycena dissimulabilis* Britz. Hym. Südbayer, IX, 6, f. 528. 149

*Hab.* in Bavaria australi. — Grisea, centro atro-brunnea; sporæ  
14-15 = 6 *M. dissilienti* affinis.

18. *Mycena subperincurvata* Britz. Hym. Südbayer IX, p. 7, f. 609. 150



Hymenomycetæ, Agaricacæ, Leucosporæ, Omphalia. — 23

*Hab.* in silvaticis Baviariæ australis. — Alba; sporæ 8-10 = 4.

*M. cladophyllæ* affinis.

19. *Mycena impromiscua* Britz. Hym. Südbayer. IX, p. 7, f. 607. 151

*Hab.* in silvaticis Baviariæ australis. — Flavo-rubra; sp. 6-7 = 4.

*M. Aciculæ* affinis.

20. *Mycena marasmioides* Britz. Hym. Südbayer X, p. 162, f. 644. 152

*Hab.* in silvaticis Baviariæ australis. — Albida, centro flavo-carnea; sporæ 8 = 4. Ad *Marasmius* accedit.

**HIATULA** Fr. — Syll. V, p. 305, IX, p. 40.

1. *Hiatula tonkinensis* Pat. Journ. de Bot. 1891, p. 308. — Pileo 153

convexo, tenui, sicco, glabro, summitate mucronato, striatulo, albido v. pallide flavescente; lamellis liberis, albidis; stipite albido, tereti, gracili; sporis hyalinis, ovoideis, basi attenuatis, levibus 7-8 = 5-6.

*Hab.* gregatim ad humum, Tonkin. — Pileus 1-3 cm. diam.; stipes 2-3 mm. cr., 5-8 cm. long.

**OMPHALIA** Fr. — Syll. V, p. 308, IX, p. 41. — Conferatur clavis analyticalica specierum boreali-americanarum in 45 Rep. p. 32, clar. Peckii.

1. *Omphalia corticola* Peck 44 Rep. p. 18, t. II, f. 8-12. — Pileo 154

tenui, submembranæo, convexo, dein expanso et umbilicato, remote striato, albido v. pallido cinereo; lamellis angustis, remotis, primo arcuatis adnatisque, dein decurrentibus, albis; stipite brevi, curvo, sparse farinoso, initio albido basique brunneo, dein omnino brunneo v. apice tantum albido; sporis ellipsoideis, 7,5 = 4, vulgo 1-guttatis.

*Hab.* ad corticem *Quercus* albæ, Carrollton Amer. bor. — Pileus 2,5-10 cm. lat.; stipes 8-12 mm. long. Habitus *Mycenæ corticolæ*.

2. *Omphalia bibula* Qué. — Syll. V, p. 324 — var. *citricolor* Roll. 155

Bull. Soc. Myc. 1891, p. 94, t. VI, f. 1. — Pileo tenui, e citrino albicante; stipite citrino albido; lamellis triangularibus, albescentibus; sporis ovatis, 7,5 = 5.

*Hab.* ad terram in silvis, in Gallia. — Pileus 3 cm. diam.; stipes 4-5 cm. long., 3 mm. cr.

3. *Omphalia Martensii* P. Henn. Hedw. 1893, p. 63. — Pileo mem- 156

branaceo, campanulato, centro umbilicato, radiatim striato, isabelino; stipite gracili, fistuloso levi et glabro, flavescenti, basi subfusco; lamellis subtriangularibus latis subdistantibus, pallidis, decurrentibus; sporis non visis.

*Hab.* ad radices, Borneo occid. (MARTENS). — Pileus 5-9 mm.

diam.; stipes 0,5-1 mm. cr.

4. *Omphalia albula* Quél. Champ. Jura Suppl. XVIII, f. 3, p. II, f. 11. — 157  
Pileo umbilicato, membranaceo, flexuoso, glabro; stipite pleno, gracili, incurvato; lamellis inæqualibus, adnatis, decurrentibus, flavolutescentibus; sporis fusoides, 3-guttatis, hyalino-roseolis, 10-12  $\mu$ . diam.

*Hab.* ad humum, Jura Galliæ. — Pileus 2 mm. lat. *O. scyphoidi* affinis.

5. *Omphalia alutacea* C. et Massee Grev. XXI, p. 40. — Castanea; 158  
pileo membranaceo, convexo, dein umbilicato, levi, margine incurvo, æquali; stipite elongato, gracili, cavo, levi, pileo subpallidior; lamellis subangustis, confertiusculis, arcuatis, decurrentibus; sporis 6-8.

*Hab.* in graminosis et muscosis, Whitcliffe Wood Britannicæ. — Pileus 10-15 mm. diam.; stipes 2-4 cm. long., 1-2 mm. cr. Habitus *O. scyphiformis*.

6. *Omphalia fuligineo-nigrescens* Britz. Hym. Südbayer, IX, pag. 7, 159  
f. 611, 612.

*Hab.* ad caudices in silvaticis Bavaricæ australis. — Grisea v. brunneo-violacea, centro obscurior; sp. 10-6. *O. mauræ* affinis.

7. *Omphalia alpina* Britz. Hym. Südbayer, IX, p. 7, f. 257, 536. 160

*Hab.* in paludosis alpinis Bavaricæ australis. — Vitellina; sporæ 8-10-3.

## PLEUROTUS Fr. — Syll. V, p. 339, IX, p. 45.

1. *Pleurotus albo-niger* Pat. Bull. Soc. Myc. 1893, p. 126. — Pileo 161  
tenui, membranaceo, e globoso cupulari, expanso, pendulo, vertice in stipitem brevem attenuato, disco tenui affixo, striato-plicato, pulverulento, postice hispidulo, argenteo-cinereo, brunnescente, margine albo; lamellis angustis, inæqualibus, radiantibus, atris, acie integris, cinereis; sporis hyalinis, levibus curvulis 8-3.

*Hab.* ad ramos emortuos, Æquatore. — *P. nigro* affinis.

2. *Pleurotus globulifer* Pat. Journ. de Botanique 1891, p. 306. — 162  
Pileo carnoso gelatinoso, orbiculari vel spathulato, griseo, e resupinato reflexo, in stipitem attenuato; lamellis griseis, modice confertis, inæqualibus; pellicula maculis pilosis conspersa cellulisque globulosis intermixtis, brunneis.

*Hab.* ad ligna putrida, Tonkin. — Pileus 10 mm. diam. *P. spiculifero* affinis.

3. **Pleurotus Saccardianus** Arc. Bull. Soc. bot. ital. 1892, p. 174. — 163

Pileo subexcentrico, plerumque sinuato-lobato, ad marginem attenuato, alutaceo v. cinereo, levi, glabro, demum explanato v. repando; stipite striato, glabro, cinereo v. umbrino, subæquali; lamellis sat angustis, tenuibus confertis, minoribus postice truncatis v. obtusis; sporis albo-carneis, 6-5  $\approx$  3-4.

*Hab.* ad terram in olivetis, in Agro Pisano. — Pileus 6-15 cm. lat. *P. craspedio* affinis.

4. **Pleurotus prolifer** Pat. et Hariot Bull. Soc. Myc. 1893, p. 207. — 164

Pileo e pileolis numerosis, carnosus, flabelliformibus, tenuibus, antice lobulatis v. integris, margine recto, acuto, postice in stipitem desinentibus, albidis, tomento concolori vix visibili obductis, antice confertim lineolatis; lamellis in quoque pileolo vix confertis, tenuibus concoloribus, longe decurrentibus, contextu opaco; stipite unico tereti, albo-caperato.

*Hab.* ad truncos putridos, Congo. — Pileus 3-6 cm. lat., stipes 2 cm. long., 8 mm. cr. *Pano anthocephalo* affinis.

5. **Pleurotus Soyauxii** P. Henn. F. Afr. p. 356. — Pileo carnosus subdi- 165

midato, conchato v. lobato-flabelliformi, molli, levi, albo-flavescente v. cinereo-brunneo, margine tenui, involuto, repando; stipite obsoleto sæpius nullo; lamellis longe decurrentibus, latis, non anastomosantibus, ramosis, ex albo flavescentibus; sporis subrotundis, levibus, 6-7  $\approx$  5-6.

*Hab.* ad lignum emortuum, Loango Africae (Soyaux). — Pileus 3-5 cm. alt., 2-5 cm. lat.

6. **Pleurotus Flabellum** Bres. Contrib. Fl. Afr. orient. p. 4, t. VIII, 166

f. 1, — Pileo flabelliformi, membranaceo, ruguloso, glabro, albo, margine repando-lobato, sulcato; stipite laterali, tereti, attenuato, concolore, glabro; lamellis distantibus, ventricosus, albis integris, paucis, latoribus, in stipitem decurrentibus, dimidiatis, ad latera venosis; sporis hyalinis globosis, 7-9  $\mu$ . diam.

*Hab.* ad truncos, in silvis Fekeria-Ghemb Afr. orient. (Ragazzi). — *P. miti* affinis.

7. **Pleurotus Suberis** Pat. Champ. nord Afrique in Journ. Bot. 1894, 212. — 167

Pileo carnosus, albidus v. rufescens, glabro, deorsum depresso, in lobulis numerosis, imbricatis, parvos pileos anterieus truncatos et in stipitem attenuatos simulantes partito; stipite excentrico; lamellis albis, non confertis, latis, longe decurrentibus; sporis albidis (coacervatis), cylindraceutis, rectis v. vix curvulis, 8-12  $\approx$  3-4.



*Hab.* ad truncos in Tunisia. — Pileus 8-10 cm. lat., stipes 4-8 cm. long. 1 cm. lat.; caro albida, sapida, edulis. *P. ostreato* affinis.

8. **Pleurotus Chevallieri** Pat. Champ. nord Afrique in Journ. Bot. 1894, 168 212. — Pileo resupinato, sessili, turbinato, cupuliformi, dein reflexo v. expanso, integro, dorsaliter fixo, atro-brunneo, pilis radiantibus; carne gelatinosa et hyalina superne, albida et firma prope hymenium; lamellis integris, inæqualibus, albidis v. cinereis, valde distantibus, radiantibus et lata depressione centrali, orbiculari, nuda et glabra; sporis hyalinis, cylindraceis, curvulis, 10-12  $\approx$  3-4.

*Hab.* ad ramulos putridos ad terram in Algeria. — Pileus 6-15 mm. diam. *P. atro-cæruleo* affinis.

9. **Pleurotus pubescens** Peck 44 Rep. p. 18. — Pileo carnoso, convexo, suborbiculari, pubescenti, flavido; lamellis latis, subdistantibus, postice rotundatis, sinuatis, pallide subro-tinctis; stipite brevi, firmo, incurvo, excentrico, pileo concolori; sporis globosis, 7,5  $\mu$ . diam.

*Hab.* in truncis, Lyndoville Amer. bor. (C. E. FAIRMAN). — Pileus circ. 5 cm. diam.; stipes vix 2,5 cm. long.

10. **Pleurotus campanulatus** Peck 44 Rep. p. 19, t. II, f. 13-15. — 170 Pileo tenui, subtenaci, campanulato, vertice adnato, glabro v. pilis paucis, griseolis sparso, sæpe margine plicato-striato, nigro; lamellis paucis, remotis, albidis; sporis incurvis, 7,5-8,5  $\approx$  3,5-4.

*Hab.* in ramis emortuis Mori rubræ, Saugerties Amer. bor. — Pileus 2,5-5 cm. diam. *P. striatulo* subaffinis.

11. **Pleurotus atro-cæruleus** Fr. — Syll. V, p. 377. — Var. **griseus** 171 Peck 44 Rep. 35. — Pileo griseolo v. griseo-brunneo, pilis albidis v. griseolis, grossiusculis, acuminatis vestito; lamellis non latis; sporis ellipsoideis, subinde subcurvis, 7,5  $\approx$  4.

*Hab.* ad truncos, Carrollton Amer. bor.

12. **Pleurotus inconspicuus** Mæsse Journ. of Bot. 1892, p. 196, t. 325, 172 f. 8. — Pileo tenerrimo, pellucido, candido, resupinato, suborbiculari, planiusculo, albo, basi villosulo adfixo; lamellis concurrentibus, distantibus, angustis, albis; sporis ellipsoideis, basi apiculatis 6  $\approx$  3.

*Hab.* in ramentis siccis, Walliboo Valley Indiæ occid. — Pileus 1-2 mm. diam. *P. patellari* affinis.

13. **Pleurotus longinquus** Berk. Flora Antarct. II, 447, t. 163, f. 5. — 173 Pileo obliquo suborbiculari, albo demum pallide fusco, glabro nitente, 2 cm. diam., strato superiore gelatinoso; stipite curto quandoque brevissimo, pallide flavo-fusco basi albo-floccoso; lamellis albis subfurcatis, interstitiis levibus.

*Hab.* ad ligna emortua Hermite Island, Cape Horn. — *Pl. mili* affinis.

14. *Pleurotus Lux* Hariot Jour. de Bot. 1892, p. 412. — Pileo di- 174  
midiato, applanato, deorsum truncate, stipitato, fusco-cinereo, margine integro obtusiusculo, subrevoluto, basi incrassatulo, tenuiter furfuraceo-tomentoso; stipite canescente, lamellis crassiusculis, membranaceis, albido-griseis, opacis, integris, liberis, deorsum confluentibus; sporis rotundatis, hyalinis, levibus 4  $\mu$ . diam.

*Hab.* in Borabora et Tahiti insulis (BRUNAUD). — Pileus 1 cm. diam.; stipes 2 mm. long.; species per noctem lucifera.

15. *Pleurotus? follicola* Pat. et Lag. Bull. Soc. Myc. 1893, p. 127. 175  
— Maculis amphigenis, arescendo dealbatis, subcircularibus, fusco marginatis, pileolis hypophyllis minutissimis, paucis resupinatis; lamellis paucis, simplicibus, crassiusculis, acie obtusis, radiantibus; stipite brevissimo sursum excentrice adfixo.

*Hab.* ad paginam inferiorem foliorum, Æquatoria.

16. *Pleurotus populeti* Britz. Hym. Südb. VI, p. 14, fig. 382. 176

*Hab.* ad truncos populneos Baviaræ australis. — Griseo-brunneus; sporæ 10  $\approx$  3-4.

17. *Pleurotus violaceo-spermus* Britz. Hym. Südbayr. X, p. 162, f. 656. 177

*Hab.* ad truncos betulinos Baviaræ australis. — Flavo-brunneus; sporæ 9-10  $\approx$  3-4. *P. ostreato* affinis.

18. *Pleurotus Juglandis* Britz. Hym. Südb. X, p. 182, VI, pag. 14, 178  
fig. 383 (*fuligineo-cinereus*).

*Hab.* ad truncos Juglandis Baviaræ australis. — Griseo-brunneus; sporæ 12-14  $\approx$  3-4.

19. *Pleurotus trutinatus* Britz. Hym. Südbayer, IX, p. 7, f. 291. 179

*Hab.* ad ligna putrescentia Baviaræ australis. — Sordide flavo-brunneus; sporæ 6  $\approx$  4. *P. petaloidi* affinis.

20. *Pleurotus leucochrius* Britz. Hym. Südbayer, IX, pag. 7, f. 323, 180  
550, 621.

*Hab.* ad Fagos putres in alpinis Baviaræ australis. — Albido-lacteus; sporæ 6-7  $\mu$ . diam.

# HYGROPHORUS Fr. — Syll. V, p. 387, IX, p. 52.

1. *Hygrophorus Marzuolus* (Fr.) Bres. Due spec. interess. Funghi Fl. 181  
mic. ital. p. 6, tav. 1. Huc spectat *Clitocybe Marzuolus* Fr. — Syll. V, p. 164. — Stipite 4-7 cm. long., 1-2½ cm. apice et usque ad 4 cm. basi crass.; basidiis clavatis 55-60  $\approx$  5-7; sporis late obovatis, hyalinis, levibus, 6-7  $\approx$  4-5.

*Hab.* inter acus abietinos in silvis Vallombrosa (Toscana). — Pileus 4,5–7 cm. diam.

2. **Hygrophorus albidus** Karst. Symb. Myc. Fenn. XXXII, p. 1. — 182  
Pileo submembranaceo e convexo-plano, umbonato, cute longitudinaliter fibroso-contexta, circa marginem subinde rugis papilliformibus sparsis ornato, levi, albido, viscido; stipite æquali, flocculoso, albido; lamellis adnato-decurrentibus, distantibus, candidis; sporis 8–10  $\approx$  6.

*Hab.* supra acus Abietis excelsæ in silvis Fennicæ. — Pileus 2–3 cm. diam.; stipes 7 cm. long., 3 mm. cr. *H. terebrato* Fr. et *H. tephroleuco* affinis.

3. **Hygrophorus rubro-fibrillosus** Britz. Hym. Südbayer, X, pag. 171, 183 f. 101.

*Hab.* in silvaticis Baviaræ australis. — Rubro- v. carneo-brunneus; sporæ 10  $\approx$  6. *H. pudorino* et *H. Queletii* affinis.

4. **Hygrophorus connatus** Karst. Symb. Myc. Fenn. XXX, p. 61. — 184  
Pileo carnoso, tenui, submembranaceo e convexo-explanato, inæquali, sicco, levi, cinereo-pallido, albo-sericeo tandem glabro; stipite solido, subæquali, subflexuoso, sericeo-fibrilloso, superne furfureo-squamuloso, pileo concolore; lamellis decurrentibus, distantibus, ramosis, cinerescentibus, mollibus crassiusculis, angustis; basidiis cylindræo-clavatis; sporis 7–9  $\approx$  4–5.

*Hab.* in cavernis formicarum Mustiala Fennicæ. — Pileus 3–4 cm. diam.; stipes 3–4 cm. long. *H. cinereo* proximus.

5. **Hygrophorus cantharelliformis** Britz. Hym. Südbayer, IX, pag. 15, 185 f. 89.

*Hab.* in silvis montanis Baviaræ australis. — Ochraceo-flavus v. carneo-flavescens; sporæ 8  $\approx$  6. *H. micaceo* affinis.

6. **Hygrophorus flavipes** Britz. Hym. Südbayer, VIII, p. 10, f. 69. 186

*Hab.* in silvaticis Baviaræ australis. — Cinereo-brunneus; stipes basi flavescens; sporæ 8  $\approx$  6. *H. glauco* affinis.

7. **Hygrophorus lectus** Britz. Hym. Südb. VI, p. 30, fig. 31, 63. 187

*Hab.* ad sepes Baviaræ australis. — Pallide brunneus, centro obscurior; sporæ 8–10  $\approx$  4–5.

8. **Hygrophorus albo-roseus** Britz. Hym. Südb. VI, p. 30, fig. 53. 188

*Hab.* in silvis Baviaræ australis. — Albo-rubescens; sp. 10–12  $\mu$ . diam.

9. **Hygrophorus subvirens** Britz. Hym. Südb. VI, p. 30, fig. 61. 189

*Hab.* in silvis et sepibus Baviaræ australis. — Totus griseo-virens; sporæ 8  $\approx$  4.

10. *Hygrophorus bellus* Massee Journ. of Bot. 1892, p. 161, t. 321, 190

f. 1-4, 8. — Pileo carnoso, convexo-plano, centro depressiusculo, glabro, leviusculo, e coccineo expallente; stipite cavo, glabro, æquali v. sursum incrassato, lutescente, coccineo-striato; lamellis decurrentibus, distantibus, crassis, flavis, aurantio-tinctis, interstitiis venosis; sporis ellipsoideis, hyalinis,  $18 \approx 10$ .

*Hab.* ad terram in silvis umbrosis, Nariaqua Valley Indiæ occident. — Pileus 3,5-5 cm.; stipes circ. 5 cm. long., sursum 8 mm. cr. *H. hæmatocephalo* affinis.

11. *Hygrophorus squamulosus* Ell. et Everh., Proceed. acad. Nat. Sc. 191

Philad. 1893, pag. 440. — Carnosus, fragilis; pileo hemisphærico, ex expanso convexo, læte aurantiaco, dein margine præcipue pallidiore, tomentoso-squamoso, non viscoso; lamellis emarginato-adnatis, denticulo subdecurrentibus, dilute flavis, inæqualibus, latiusculis, modice confertis, acie obtusis, demum pulverulentis, interstitiis leniter rugosis; stipite crasso, sursum subattenuato, apice leniter farinoso, cavo, dilute aurantiaco, sæpe compresso et incurvo; sporis hyalinis, oblongo-ellipsoideis,  $5-6 \approx 3-3,5$ ; basidiis clavato-cylindræis,  $22-25 \approx 3,5-4$ , stipitatis.

*Hab.* in silvis paludosis, inter muscos, ligna et folia, Newfield, New Jersey Amer. bor. — *H. coccineo* affinis; pileus 3-4 cm. diam.; stipes 5 cm. long.,  $\frac{1}{2}-\frac{3}{4}$  cm. cr.

12. *Hygrophorus spectandus* Britz. Hym. Südbayer, IX, p. 15, f. 91, 192

*Hab.* in Bavaria australi. — Totus igneus; sporæ  $10-11 \approx 5-6$ .

*H. specioso* affinis.

13. *Hygrophorus persistens* Britz. Hym. Südbayer, IX, p. 15, f. 64, 193

75-77.

*Hab.* ad sepes et in pascuis silvaticis Baviaræ australis. — Flavо-ruber dein pallide flavus; sporæ  $10-16 \approx 6-10$ . *H. conico* affinis.

# **RUSSULA** Pers. — Syll. V, p. 453, IX, p. 59.

1. *Russula xanthophæa* Boud. Bull. Soc. Myc. Fr. 1894, p. 60, Tav. I, 194

f. 3. — Pileo centro depresso, margine pectinato-sulcato et tuberculoso, brunneo-fulvo v. badio-fulvo, margine ochraceo-fulvescenti; lamellis adfixis, latis, venoso-convexis, ochraceis; stipite albedo striatulo; sporis ochraceis, ovatis  $10-13 \approx 8-10$ .

*Hab.* ad terram, Montmorency Galliæ. — Pileus 4-5 cm. diam.

*R. pectinatæ* et *R. ravidæ* proxima.

2. *Russula nauseosa* Pers. — Syll. V, p. 481. — Var. *atropurpurea* Al- 195

lesch. Süd-Bay. II, Nachtr. p. 33. — Pileo 4-6 cm. lat., umbonato, dein circa centrum depresso, atro-purpureo, centro subnigricante, margine striato; stipite spongioso-farcto, conico, 6-10 cm. long., striato, subfarinoso, decolorato; lamellis adnexis, luteis.

*Hab.* prope München Baviaræ.

3. *Russula viridipes* Bann. et Peck 44 Rep p. 72. — Pileo sordide ærugineo, saturatius submaculato, margine inflexo; contextu fragili, albo, immutabili, sapore acerrimo; lamellis adnexis, sordide ochraceis, angustis, furcatis, brevioribus in speciem anastomosantibus; stipite cavo, basi attenuato, apice incrassato, levi, dilutius et lætius viridi; sporis 8  $\mu$ . diam.

*Hab.* ad Baltimore Amer. bor. — Stipes 2,5-5 cm. long. Habitus *Lactarii atroviridis*.

4. *Russula lilacea* Quél. — Syll. V, 464 — v. *carnicolor* Bres. F. Trid. II, p. 23, t. 128. — A typo differt tantum colore pilei, qui numquam lilaceus est sed *carnicolor*, centro primitus fusco-lividus dein concolor.

*Hab.* in nemoribus campestribus, Val di Sole agri Trident.

5. *Russula olivicolor* Britz. Hym. Südbayer, VIII, p. 11, f. 65.

*Hab.* in silvis abietinis Baviaræ australis. — Olivaceo-brunnea; sporæ 9  $\approx$  7. *R. furcatae* affinis.

6. *Russula subcompacta* Britz. Hym. Südbayer, VIII, p. 12 f. 71.

*Hab.* in silvis pineis Baviaræ australis. — Olivaceo-rubescens; sporæ 10  $\approx$  8, flavidæ.

7. *Russula truncigena* Britz. Hym. Südbayer IX, p. 18, f. 109.

*Hab.* ad truncos fagineos Baviaræ australis. — Opacæ flavida; sporæ 8  $\approx$  6. *R. fragili* affinis.

8. *Russula cavipes* Britz. Hym. Südbayer, IX, p. 17, f. 98.

*Hab.* in silvaticis Baviaræ australis. — Sordide rubescens; sporæ 10  $\approx$  6-8. *R. fallaci* affinis.

9. *Russula paludosa* Britz. Hym. Südbayer, VIII, p. 11, f. 60.

*Hab.* in paludosis Baviaræ australis. — Sanguinea; sporæ 10  $\approx$  8. *R. integræ* et *R. emeticæ* affinis.

10. *Russula Britzelmayri* Rom. in Britz. Hym. Südbayer, VIII, p. 12, 203 f. 54.

*Hab.* in silvaticis Baviaræ australis. — Flavida, rubro-maculata; sporæ 10-12  $\approx$  10, flavidulæ.

11. *Russula parvipes* Rom. in Britz. Hym. Südbayer, IX, p. 17, f. 106.

*Hab.* in silvaticis Baviaræ australis. — Flavida, opaca; sporæ 8-9  $\approx$  6-7.

12. *Russula graveolens* Rom. in Britz. Hym. Südbayer, IX, p. 17, 205  
f. 85.

*Hab.* in silvaticis Baviaræ australis. — Purpureo-vinosa; sporæ 8 ≈ 6.

13. *Russula grata* Britz. Hym. Südbayer, IX, p. 17, f. 92. 203

*Hab.* in montanis Baviaræ australis. — Ochroleuca; sporæ 12 ≈ 10 v. 10  $\mu$ . diam.

**LACTARIUS** Fr. — Syll. V, p. 423, IX, p. 56.

1. *Lactarius rubescens* Bres. Fung. Trident. p. 84, tab. XCIII. — 207

Pileo carnoso convexo-plano, demum depresso subinfundibuliformi, raro subumbonato, polito, glabro, sicco, margine primitus involuto et albo-pruinoso, carneo-lateritio, expallente; lamellis confertis e pallidis carneo-rufescentibus, subdecurrentibus; stipite e farcto subcavo, basi attenuato alboque tomentoso, concolori, sub lente albo-pruinato, glabrescente; sporis subglobosis, hyalinis 7-8  $\mu$ . diam.

*Hab.* in pratis subcastaneis agri Trident. — Pileus 2,5-5 cm. lat.; stipes 3-4 cm. long., 6-9 mm. cr. *L. subdulci* Bull. proximus.

2. *Lactarius azonus* Britz. Hym. Südb. VI, p. 30, fig. 45 (in ser VII). 208

*Hab.* in silvis fagineis Baviaræ australis. — Totus pallide griseo-carneus; sporæ 10 ≈ 8.

3. *Lactarius conditus* Britz. Hym. S. db. VI, p. 30, fig. 47 (in ser. VII). 209

*Hab.* in silvis Baviaræ australis. — Albido-griseo-carneus; sporæ 8-9 ≈ 68.

4. *Lactarius nominabilis* Britz. Hym. Südbayer, IX, p. 16, f. 63. 210

*Hab.* in silvis fagineis Baviaræ australis. — Totus ochroleuco-rubescens; sporæ 10 ≈ 6. *L. pallido* affinis.

5. *Lactarius helvinus* Britz. Hym. Südbayer, VIII, p. 11, f. 53. 211

*Hab.* in paludosis Baviaræ australis. — Albo-isabellinus; sporæ 8 ≈ 6. *L. helvo* affinis.

6. *Lactarius proportionalis* Britz. Hym. Südbayer, IX, p. 16, f. 62. 212

*Hab.* in Bavaria australi. — Totus ochraceo-albidus; sporæ 8 ≈ 6. *L. Cyathulæ* affinis.

7. *Lactarius platicus* Britz. Hym. Südbayer, IX, p. 16, f. 44. 213

*Hab.* in silvis fagineis Baviaræ australis. — Pallidus; sporæ 8 ≈ 6. *L. pallido* affinis.

8. *Lactarius acerrimus* Britz. Hym. Südbayer, IX, p. 16, f. 55. 214

*Hab.* in pascuis silvaticis Baviaræ australis. — Obsolete rubro-flavo-zonatus; sporæ 12-14 ≈ 9-10. *L. insulso* affinis.

9. *Lactarius paludestris* Britz. Hym. Südbayer, X, p. 172, f. 71. 215



*Hab.* in paludosis Bavaricæ australis. — Aquose albidus; sporæ 10 = 8 flavidulæ. *L. vieto* affinis.

**CANTHARELLUS** Adans. — Syll. V, p. 482 et IX p. 63.

1. **Cantharellus Hypnorum** Brond. Agen. IV, t. 14, f. 4-5, Rev. Myc. 216 1892, p. 65. — Pileo campanulato convexo, tomentoso, flavido v. pallide ochraceo; stipite gracili, pleno, flexuoso, glabrescenti, flavescenti; lamellis decurrentibus, ramosis, flavidis.

*Hab.* ad muscos in silvis agri Agenensis. — Pileus 2-3 cm. diam. *C. aurantiaco* affinis.

2. **Cantharellus Coemansii** Rab. F. Eur. n. 209. — Pileo subcarnoso- 217 molli, campanulato, extus villosa-tomentoso, albido, margine inflexo; lamellis plicæformibus, subfurcatis, cinnamomeis.

*Hab.* ad Gandavum Belgii (COEMANS). — *C. Crucibulo* Fr. Epicr. 369 proximus.

3. **Cantharellus castaneus** Pat. Bull. Soc. Myc. 1893, p. 127 (*Dictyo-* 218 *lus*). — Pileo carnoso elastico, minuto, pendulo, reniformi, glaberrimo, castaneo-rufo, margine pallidiore, integro v. lobato, reflexo; stipite noduliformi, laterali, brevissimo; hymenio concolore; lamellis paucis, strictis, crassis, coriaceis, acie obtusis, ramulosis, venoso-connexis.

*Hab.* ad ramulos dejectos putrescentes, Quito. — Pileus 1-5 mm. lat.

**RIMBACHIA** Pat. Bull. Soc. Myc. 1891, p. 159, t. XI, f. 1 (Etym. a cl. A. RIMBACH mycetum quitensium collectore). — Fungi carnosii erecti, pezizæformes; hymenium læve, nonnullis venis e centro radiantibus reticulatum et paginam superiorem pilei sistens; pagina externa sterilis, cum stipite contigua. Basidia clavata 4-sterigmica; sporæ hyalinæ, ovoideæ, continuæ. Gen. *Arrhenia* subaffine.

1. **Rimbachia paradoxa** Pat. l. c. — Pileo albido, erecto, margine 219 perparum undulato, tenui, carnoso, planiusculo, centro depresso; hymenio totam pilei superiorem partem obtegente parce venoso; stipite gracillimo, solido; sporis ovoideis hyalinis 6-7 = 3; basidiis minutis clavæformibus, apice 4 sterigmata gerentibus, 20 = 5.

*Hab.* ad terram inter muscos, Egido prope Quito. — Fung. 8-10 mm. alt.; pileus 5-7 mm. diam.; stipes 2-4 mm. long, 1 mm. cr.

**MARASMIUS** Fr. — Syll. V, p. 503, IX, p. 65.

1. **Marasmius Martellii** Bres. Bull. Soc. bot. ital. 1892, p. 196. — 220



Pileo membranaceo e convexo expanso, umbilicato, e badio alutaceo-cinnamomeo, margine demum striato-subsulcato, e pubescente glabrato; stipite deorsum attenuato, rubescenti-luteolo, albo-pruinoso, basi flocculoso, fistuloso; lamellis subconfertis e fuscidulo luride lutescentibus, acie fimbriata, postice sinuato adnatis-dente decurrentibus; sporis obovato-elongatis 1-guttatis, hyalinis 7-9  $\approx$  3,5-4; basidiis clavatis 18-25  $\approx$  5-6.

*Hab.* ad terram Florentiæ (U. MARTELLI). — Pileus 1-1,5 cm. lat.; stipes 1,5-2 long. apice 1,5 mm. basi 1 mm. crass.; caro concolor, odor et sapor nulli. *Marasmius languido* affinis.

2. **Marasmius funicularis** (Fr.) Karst. Symb. Myc. Fenn. XXXII, p. 1 221  
*Collybia dryophila* B *funicularis* Fr. Monogr. p. 163. — Pileo rufo subexpallente, lævi; stipite sulcato, apice incrassato, curvato, albido-lutescenti; lamellis sulphureis, expallentibus; sporis 6  $\approx$  2-3.

*Hab.* in truncis Betulæ pr. Mustiala Fennicæ. — Pileus usque ad 5 cm. diam.; stipes 3-4 cm. long. *M. butyraceo* affinis.

3. **Marasmius Bonii** Pat. Journ. de Bot. 1891, p. 307. — Pileo tenui, 222  
pellucido, albescenti, glabro, late depresso, plus minusve excentrico, e levi striatulo; lamellis concoloribus, angustis, obtusis, æqualibus, subdecurrentibus, distantibus, venosis; stipite flavescenti, superne pellucido, tereti, basi subinflato fibrillosoque.

*Hab.* ad ligna emortua, Tonkin. — Pileus 6-15 mm. diam.; stipes 1-2 cm. long., 1 mm. cr.

4. **Marasmius pyropus** Pat. Journ. de Bot. 1891, p. 307. — Pileo 223  
membranaceo, tenui, excentrico, umbilicato, striato, albido dein fusciscenti v. rufescenti, fibrilloso; lamellis albidis, distantibus, obtusis, decurrentibus, venosis; stipite glabro, rigido, rufo-fusco, inferne bulboso.

*Hab.* ad ligna putrida, Tonkin. — Pileus 12-20 mm. diam.; stipes 1-3 cm. long.

5. **Marasmius subroseus** C. et Massee Grev. XXI, p. 37. — Cæspit- 224  
tosus; pileo ovato-campanulato, membranaceo, levi, leniter umbo-nato, substriato, pallide castaneo, roseo-tincto; stipite æquali, rigidulo, corneo, cavo, levi, dein inferne subrubido, basi albo-putrescenti; lamellis remotis, adnatis, latis, interstitiis leniter venosis, albidis, roseolo-tinctis.

*Hab.* ad lignum putre, Victoria Australiæ (MARTIN). — Pileus 1-2 cm. diam.; stipes 3-4 cm. long., 1-2 mm. cr.

6. **Marasmius gogolensis** Henn. Fung. novoguin. II, p. 35. — Pileo 225  
carnoso membranaceo, convexo, plano, ruguloso, radiato strigoso,

albido flavescenti, margine sinuato crenato, usque ad 5 cm. diam.; stipite solido brevi, æquali, striatulo, pallido, nudo, basi incrassato 2-3 cm. long., 2-3 mm. cr.; lamellis arcuato-adnexis, fere decurrentibus, latis, distantibus, inæqualibus, sæpe anastomosantibus, albo-pallidis.

*Hab.* in ligno vetusto ad Gogol Novæ-Guinææ.

7. **Marasmius novo-pomeranus** Henn. Fung. novoguin. II, p. 35. — 226

Pileo tenui, membranaceo, convexo dein expanso, centro umbilicato, radiato-sulcato v. plicato, ex albo isabellino, margine repando; stipite cavo gracillimo, levi, striato, fusciscenti, 4-6 cm. long. 1-2 mm. cr.; lamellis paucis, latis, valde distantibus, in collarium liberum postice conjunctis sæpe venoso-anastomosantibus pallidis.

*Hab.* in ligno vetusto ad Novam Pomeraniam Oceanicæ german.

8. **Marasmius concinnus** Ell. et Ev., Proceed. Acad. Nat. Sc. Philad. 227

1893, p. 441. — Minutus; pileo convexo, fumoso-brunneo, pruinoso; lamellis non confertis, adnatis, pruinosis, acie obtusa; stipite albo, e tomento albo, cæspitose oriundo, subtus piloso-strigoso, supra attenuato et pruinoso-pubescenti; sporis hyalinis, globosis, 3  $\mu$ . diam.; basidiis cylindraceis, 12-15  $\approx$  4.

*Hab.* in ligno emortuo Evonymi atropurpurei, Mt. Cuba, Delaware Amer. bor. — Fungus 2 mm. alt.; pileus 1 mm. diam.

9. **Marasmius epodius** Bres. Fung. Trident. p. 88, tab. XCVIII. — 228

Pileo membranaceo, e convexo-campanulato expanso, ut plurimum umbonato et circa umbonem depresso, margine primitus subinvolutus, sulcato, centro fere semper reticulato, carneo-lutescenti, expallenti; lamellis valde distantibus, æqualibus, absque lamellis, liberis, ex albo subgilvis; stipite glaberrimo, filiformi, fistuloso e rufescenti badio, apice hyalino, persistenti, basi bulbillo stramineo lutescenti, villosulo-hirto prædito; sporis acicularibus 20-28  $\approx$  2,5-4.

*Hab.* ad folia emarcida in agro Tridentino. — Pileus 4-14 mm. lat.; stipes 4-7 cm. long. *M. graminum* Berk. affinis.

10. **Marasmius Schweinfurthianus** P. Henn. F. Afr. II, p. 32, t. I, 229

f. 8. — Pileo tenui membranaceo e campanulato explanato, radiatum sulcato-striato, nudo rufo-brunneo, medio umbonato, glabro, pallescenti, margine tenui, sinuato; stipite gracili, corneo-lignoso, fistuloso, glabro, nitido, brunneo, basi incrassato; lamellis paucis, latis, valde distantibus, in collarium liberum postice conjunctis, non anastomosantibus, concoloribus.

*Hab.* ad ligna dejecta(?), Wakondjo in regione lacustri Africæ

centr. — Pileus 2-6 cm. diam.; stipes usque ad 10 cm. long., 2 mm. cr.

11. **Marasmius Stuhlmanni** P. Henn. F. Afr. II, p. 32, tab. I, f. 7. — 230

Pileo membranaceo, convexo-plano, radiato-plicato, centro vix umbonato, margine repando-sinuato, pallide cinereo-brunneo; stipite setaceo-rigido, spadiceo-nigro, glabro, curvato e mycelio atro-fusco, equi crini simili, assurgenti; lamellis adnatis, valde distantibus, angustis, anastomosantibus, concoloribus.

*Hab.* in locis humidis pr. Butumbi, Kjenkesi Africæ centr. — Pileus usque ad 1 cm. diam.; stipes usque ad 3,5 cm. long., vix 5 mm. cr.

12. **Marasmius gordipes** Sacc. et Paol. Myc. Malac. p. 6, t. V, f. 2. 231

— Pileo membranaceo, convexulo, umbilicato, 4-6 sulcato-radiato, in sicco ruguloso, ochraceo-castaneò; lamellis stipitem attingentibus, valde distantibus, angustis, fere pliciformibus, pallidis; stipite filiformi, prælongo, rigidulo, striatulo, pallide castaneo, nitidulo.

*Hab.* in foliis siccis, Malacca. — Pileus 4-6 mm. diam.; stipes 12-14 mm. long.,  $\frac{1}{3}$  mm. cr. *M. glabello* affinis.

13. **Marasmius Balansæ** Speg. Fl. Guar. nonnulli novi p. 4. — Pileo 232

membranaceo, convexo, levi, fulvo-rufescenti; stipite gracili, subtorto, fusco-rufescenti, glabro, nitidulo, basi mycelio parco palle-scenti, pruinuloso, radicato; lamellis pallidis, interstitiis non v. vix subvenosulis, utrinque attenuatis.

*Hab.* ad ramos ramentaque putrescentia in silvis, Guarapi. — Pileus 1-2 cm. diam.; stipes 4-5 cm. long., 1 mm. cr. *M. fulvipiti* Berk. et *M. ferrugineo* Berk. accedens.

14. **Marasmius Menieri** Boud. Bull. Soc. Myc. Fr. 1894, p. 61, tab. I, 233

f. 4. — Pileo excentrico, tenui, supra punctulato, late subumbonato, fulvo, centro vix obscuriore, subtus pallido; plicis lamelliformibus, paucis, ramosis; stipite gracili curvato, fulvo, basi nigro, minute pulverulento; sporis undulato-fusiformibus, 18-25  $\approx$  5-7.

*Hab.* ad culmos et folia putrida Typharum in Gallia. — Pileus minutissimus 1-3 mm. diam.; stipes 1-1,5 mm. long., 0,25-0,50 mm. cr. *Marasm. roseolo* Quéf. affinis.

15. **Marasmius gilvus** Pat. Bull. Soc. Myc. 1893, p. 125. — Pileo 234

carnoso-membranaceo, convexo dein expanso, glabrescenti, gilvo, margine tecto, levi v. subsulcato, orbiculari v. reniformi; lamellis gilvis, sinuato-adnatis, leviter confertis, inæqualibus; stipite excentrico, curvato, gracili, castaneo, pruinuloso, æquali; sporis ovatis inferne apiculatis, hyalinis, 6-7  $\approx$  3.

*Hab.* ad caules putrescentes gregatim, Quito. — Pileus 2-5 mm. diam.; stipes 1 mm. long.,  $\frac{1}{2}$  mm. cr. *M. rameali* affinis.

16. *Marasmius isabellinus* Pat. Bull. Soc. Myc. 1893, p. 126. — *Pi-* 235  
leo molli, resupinato-reflexo, reniformi, levi, isabellino, opaco, margine integro; stipite brevissimo, sublaterali, concolori, sub lente pruinoso; hymenio gilvo-aurantiaco; lamellis paucis, crispatis, distantibus, siccis, nonnullis brevioribus immixtis, lamellulis v. v. minus minus elevatis concentrice junctis; sporis hyalinis, fusiformibus, apice obtusis inferne acutis, guttulatis 15  $\approx$  5.

*Hab.* ad ramulos emortuos, Quito. — Pileus 5-14 mm. lat.; stipes 1 mm. long.

17. *Marasmius gelidus* Quél. Champ. Jura Suppl. XVIII, p. 4, t. II, 236  
f. 13. — Pileo campanulato convexo dein plano, membranaceo, rugoso-striato, pruinoso, transfulido; stipite tubuloso, sæpe filiformi, striato, pruinoso-pubescenti, basi gossypino, recurvo; lamellis liberis, tenuibus, hyalinis v. incarnatis; sporis oblongis, aculeolatis, hyalinis, 7-8.

*Hab.* gregatim ad folia emortua in Vogesis. — Pileus 1-2 cm. lat. *M. tergino* affinis.

18. *Marasmius catervatus* Massee Journ. of Bot 1892, p. 161, t. 322 237  
f. 16-18. — Gregarius; pileo e convexo v. campanulato expanso, membranaceo, e levi striato, albido; stipite fistuloso, erecto, albo, levi, glabro, basi mycelio incrassato; lamellis denticulo decurrenti adnatis, distantibus, albis, dein pallidis; sporis ellipsoideis, 6  $\approx$  4.

*Hab.* in ligno emortuo, Richmond Valley Indiæ occid. — Pileus circ. 8 mm. diam.; stipes 12-16 mm. long., 1 mm. cr., æqualis.

19. *Marasmius nanus* Massee Journ. of Bot. 1892, p. 161, t. 323, 238  
f. 23-25, 28. — Pileo convexo-plano, obtuso, sicco, levi, glabro, fusco-cinnamomeo; stipite gracili, pallidiore, e mycelio albo contexto oriundo; lamellis adnatis, distantibus, pallidis; sporis subglobosis, circ. 4  $\mu$ . diam.

*Hab.* ad truncos putridos, Morne Cochon Indiæ occid. — Fun-  
gus gregarius; pileus circ. 2 mm. diam.; stipes 2 mm. long.

20. *Marasmius grammatus* Pat. Journ. de Bot. 1891, p. 306. — *Pi-* 239  
leo albido, convexo, umbilicato, dein cyathiformi, membranaceo, glabro, striato usque ad centrum; lamellis albis, decurrentibus, angustis, confertis, crenulatis dentatis; stipite gracili, rigido, inferne villosa; sporis ovatis, hyalinis 8  $\approx$  3-3.

*Hab.* ad ligna vetusta, Tonkin. — Stipes 15-30 mm. long. 1-2 cr. *M. cubensi* affinis.

21. **Marasmius rhodopus** Bres. Contrib. Fl. Afr. orient. p. 4, tab. VIII, 240  
f. 2. — Pileo carnosulo e convexo expanso depresso v. subum-  
bato, ruguloso, albido-stramineo, glabro, margine involuto, pellu-  
cide striato, stipite fistuloso, sulcato, pulverulento, basi attenuato,  
subcompresso, rufo-fusco, apice albido; lamellis subdistantibus, ex  
albo luride stramineis, postice truncato- v. rotundato liberis; spo-  
ris hyalinis, 10-14  $\approx$  7-10.  
*Hab.* ad truncos in silva Fekerie Ghemb Afr. orient. — Pileus  
1-3 cm. diam.; stipes 2-3 cm. long., 7-4 mm. cr. *M. erythropodi*  
affinis.
22. **Marasmius tonkinensis** Pat. Journ. de Bot. 1891, p. 307. — Pileo 241  
flavescenti, orbiculari, tenui plano, glabro, reticulato, pellucido;  
lamellis concoloribus, angustis, distantibus, nervosis, venulis ana-  
stomosantibus; stipite centrali, flavo, glabro, basi incrassato.  
*Hab.* ad ligna emortua, Tonkin. — Pileus 1 cm. lat.; stipes 15  
mm. long., 1 mm. cr. *M. stenophyllo* Mont., *M. plectophyllo* Mont.,  
*M. rhyssophyllo* Mont. affinis.
23. **Marasmius Thollonis** Pat. et Hariot Bull. Soc. Myc. 1893, p. 207 242  
(*Androsaceus*). — Pileo convexo, centro umbilicato, sulcato, fusco-  
brunneo, pruinoso; stipite centrali, gracili, rigido, glabro, mycelio  
concolori; lamellis distantibus, parum numerosis, pallide fusciculis.  
*Hab.* ad ramos arborum pr. Brazzaville, Congo gall. (THOLLON).  
— Pileus 8 mm. lat. 4 mm. alt.; stipes 3-4 cm. long., 1 mm. cr.
24. **Marasmius nigro-brunneus** (Pat.) Sacc. *Androsaceus nigro-brun-* 243  
*neus* Pat. Journ. de Bot. 1891, p. 303. — Pileo orbiculari, con-  
vexo, centro depresso, 8-10 striato, nigrescenti; lamellis albidis,  
parum numerosis, adnatis circa stipitem; stipite nigrescenti, lon-  
gitudinaliter striato, tenaci; sporis 7-9  $\approx$  3-4.  
*Hab.* ad folia Graminearum, Tonkin. — Stipes 8-10 cm. long.,  
0,5 mm. cr.
25. **Marasmius Eggersii** (Pat.) Sacc., *Crinipellis Eggersii* Pat. Bull. 244  
Soc. Myc. 1893, p. 125. — Pileo convexo dein expanso, tenui mem-  
branaceo, fibrilloso, vix sulcato, violaceo-purpurascenti, margine  
pallidiore, centro nigrescenti; lamellis adnatis, antice attenuatis,  
strictis, albidis, acie integris, distantibus, brevioribus immixtis,  
interstitiis levibus v. minute trabeculatis; stipite pileo concolore,  
villosulo, apice albido.  
*Hab.* ad ligna emortua Balao Æquatoriæ. — Pileus 1 cm. diam.;  
stipes 0,5 cm. long., 0,5 mm. cr. *M. stipitario* affinis.
26. **Marasmius Myrti** (Pat.) Sacc. *Crinipellis Myrti* Pat. Bull. Soc. 245

38 Hymenomycetæ, Agaricacæ, Leucosporæ, Marasmius.

Myc. 1893, p. 125. — Pileo tenui, coriaceo, e convexo expanso, adpresse squamuloso, margine villosa, involuto, centro depresso, reniformi, rufo-albo, pellicula fibrosa tecto; stipite excentrico, rufo adpresse villosa; lamellis distantibus, attingentibus, simplicibus, albidis, acie acuto integro, brevioribus immixtis, nonnihil reniformibus; basidiis clavatis.

*Hab.* ad ramulos emortuos Myrti, Palulahua Æquatoriae. — Pileus 3-6 mm. diam.; stipes 1,5 mm. long.

27. **Marasmius atro-brunneus** (Pat.) Sacc. *Crinipellis a-b.* Pat. Journ. de Bot. 1891, p. 308. — Pileo atro-brunneo, orbiculari, margine sinuato, centro umbonato, pilis brevibus adhærentibus, brunneis consperso; lamellis fusciscentibus, distantibus adnatis, inæqualibus, spissis, venis anastomosantibus; stipite tenaci, nigro-brunneo, æquali, piloso; sporis hyalinis 9-10  $\approx$  5-6. 246

*Hab.* ad culmos putridos Graminacearum, Tonkin. — Pileus 1 cm. diam.; stipes 2-3 cm. long., 1 mm. cr. *M. stipitarius* affinis.

28. **Marasmius africanus** (Pat.) Sacc. *Crinipellis* Pat. Bull. Soc. Myc. 1892, p. 52. — Pileo reflexo, rubro, glabro, levi, margine incurvato; lamellis non distantibus, rubefactis, spissis, subæqualibus, angustis; sporis incoloribus, fusoidis, apicibus attenuatis, 5-6  $\approx$  3. 247

*Hab.* ad ligna putrida, Congo (Dybowski). — Pileus 4-6 mm. diam.

29. **Marasmius rarus** Britz. Hym. Südbayer VII, p. 1, p. 280. 248

*Hab.* in muscosis Baviaræ australis. — Carneolo-fuscus; sporæ 6-8  $\mu$ . diam.

30. **Marasmius tenuatus** Britz. Hym. Südbayer X, p. 173, f. 48. 249

*Hab.* in arenosis et graminosis Baviaræ australis. — Opacè isabellinus; sporæ 10-12  $\approx$  5-6. *M. calopodi* affinis.

31. **Marasmius subsplachnoides** Britz. Hym. Südbayer VIII, p. 12, f. 32. 250

*Hab.* in silvaticis inter folia dejecta Baviaræ australis. — Pallens, centro flavicans; sporæ 6-7  $\approx$  2-3.

32. **Marasmius arenivagus** Britz. Hym. Südbayer X, p. 173, f. 49. 251

*Hab.* in arenosis Baviaræ australis. — Albo-isabellinus; sp. 16  $\approx$  6.

33. **Marasmius subrufescens** Britz. Hym. Südbayer X, p. 173, f. 47. 252

*Hab.* in silvaticis Baviaræ australis. — Ochroleucus; sporæ 10-12  $\approx$  4. *M. peronato* affinis.

**Marasmius archyropus** (Pers.) Fr. — Syll. V, p. 521 — secundum Oudemans in Hedw. 1892, p. 134 melius dicetur **M. argyropus**, ab *argyros* argentum ob colorem stipitis.



**LENTINUS** Fr. — Syll. V, p. 571, IX, p. 71.

1. **Lentinus concinnus** Pat. Bull. Soc. Myc. 1892, p. 47. — Pileo convexo, centro depresso, sicco, coriaceo, tenui, glabro v. pilis rubris longissimis consperso; lamellis spissis, angustis, inæqualibus, decurrentibus, denticulatis; stipite e levi echinulato-tuberculato. 253

*Hab.* ad ligna mortua, Tonkin (Bon). — Pileus 3-5 cm. diam.

2. **Lentinus placopus** Pat. et Hariot Bull. Soc. Myc. 1893, p. 207. — Pileo carnosolento, infundibuliformi, margine profunde lobato, involuto, albido, squamis latis, adpressis, fibrillosis, brunneis, e centro radiantibus, margine nullis, consperso; stipite brevi, cylindræo, basi vix incrassato non radicato, sub pileo vix annulato; lamellis confertis, tenuibus, angustis, glabris. 254

*Hab.* in regione Congoana Africa centr. (Dybowski). — Pileus 8-10 cm. alt.; stipes 1-2 cm. long., 1 cm. cr: *L. descendentis* et *L. tigrino* affinis.

3. **Lentinus bukobensis** P. Henn. F. Afr. II, p. 32. — Pileo lignoso-coriaceo, rigido, infundibuliformi, levi, glabro, cuticula radiato-rimosa, margine rigido, revoluto, pallide alutaceo; stipite excentrico, brevi lignoso, solido, substriato, pallido; lamellis angustis sublinearibus, confertis, integerrimis, pallidis. 255

*Hab.* ad arbores prope Bukoba ad lacum Victoria-Njansa Africa centr. — Recens usque ad 7 cm. diam.; stipes 1,5 cm. long., 5 mm. cr.

4. **Lentinus Weissenbornii** P. Henn. F. Afr. II, p. 31. — Pileo coriaceo, infundibuliformi, centro cupuliformi, nudo, radiato, venostriato, margine usque ad 15 mm. lato, reflexo, dense fibroso-setoso, pilis usque ad 5 mm. longis, fasciculatis, ramosis, squamosis atro-fuscis; stipite gracili, basi subbulboso, striato-sulcato, nudo, postice tessellato; lamellis densissimis, ochraceis, flexuosis inæqualibus, integerrimis, foveolato-decurrentibus. 256

*Hab.* in ligno, Kamerun Africa centr. — Pileus 6 cm. diam.

5. **Lentinus velutinus** Fr. — Syll. V, p. 589 — var. **africanus** P. Henn. F. Afr. II, p. 31. — Pileo atro-cinnamomeo, coriaceo, tenui, infundibuliformi, densissime radiato striato sulcatoque, velutino, margine reflexo, undulato, integro, hispidulo-ciliato; stipite erecto, tereti, dense velutino-hispidulo, flavescenti-cinnamomeo, basi subbulboso, non radicato; lamellis confertis, æqualiter longis, atro-cinnamomeis, acie integerrimis, utrinque attenuatis, obconico-decurrentibus. 257

*Hab.* ad ligna et in regione lacustri Africa centr. — Pileus 4-8 cm. diam.; stipes 7-14 cm. long., 2-5 mm. cr.



6. **Lentinus lusitanicus** Kalchbr. in Thüm. Contr. Myc. Lus. I, p. 14. 258

Pileo obliquo, haud compacto, depresso, sublobato, tomentoso, passim denudato, alutaceo; stipite brevi, excentrico sublaterali, solido, levi, glabro, concolori; lamellis confertis, decurrentibus, anastomosantibus, albis.

*Hab.* ad truncos pr. Mafra Lusitaniæ (Væga). — Pileus 3-4 cm. diam. — Ab *L. cochleato* Fr. pileo haud glabro, ab *L. pulverulento* Fr. stipite haud elongato, ab *L. resinaceo* Fr. et *L. adherenti* Fr. indumento haud glutinoso differt.

7. **Lentinus tenuipes** Sacc. et Paol. Myc. Malac. p. 6, t. V, f. 3. — 259

Pileo glabro, minute radiatim lineolato, margine acuto; lamellis angustissimis, creberrimis, acie integris. decurrentibus, nonnullis brevioribus interpositis; stipite tereti, exili, tenaci, paullo obscuriore, sæpe tortuoso, omnino glabro, insititio; sporis albis 14  $\approx$  8.

*Hab.* ad ligna emortua, Malacca. — Pileus 15-20 mm. diam., 12-15 mm. long.; stipes 18-20 mm. long., 1 mm. cr. *L. nicobariensi* affinis.

8. **Lentinus pholiotoides** Ell. et Anders. Bot. Gaz. 1891, p. 45. — 260

Cæspitosus; pileo convexo, adpresse piloso-squamoso, disco parce adpresse verrucoso-squamoso, primo albo-flavido, dein subferrugineo; lamellis sinuatis, dente decurrente adnatis, vix confertis, acie acuta, minute fimbriato-serrulata, sordide albis, dein flavidis, subventricosis; stipite plerumque curvo v. hamato, tenaci, elastico, intus spongioso, supra minute pubescenti, subtus laxè floccoso-squamoso, pileo pallidiore; sporis hyalinis, oblongis, obtusis, apiculo obliquo præditis, 10-14  $\approx$  5-6; basidiis 35-40  $\approx$  8-10, clavato-cylindraceis.

*Hab.* ad Populum tremuloidem, Sand Coulee, Montana Amer. bor. — Pileus 1,5-2 cm. diam.; stipes 2 cm. long., 3 mm. cr.; lamellæ 2-2,5 mm. lat.

9. **Lentinus Woermanni** Cohn et Schröt. in Schröt. Unters. üb. Pa- 261

chyma und Mylitta p. 11, 12 cum tab. eximia. — Scleroticola; pileo plano, infundibulari, centro depresso, margine reflexo non revoluti, levi v. vix filamentoso-squamuloso, sicco griseo-albido v. flavo-albido, udo alutaceo-brunneo, centro subpallidiore; lamellis angustis, arcuato-decurrentibus, confertissimis, basi dichotomicè divis, pallide alutaceis; stipite subæquali, apice subincrassato, laxè floccoso-pannoso, sicco albido, udo subalutaceo-brunneo.

*Hab.* ad Kamerun Africæ occid. — Sclerotium (*Pachyma Woermanni* Schröt. l. c. p. 4 c. icone) depressum circ. 8-14 cm. long.,

7-10 cm. lat., 5 cm. alt., extus nigricans, rugoso-sulcatum, intus flavo-album, subtus applanatum, ex hyphis partim 2-3  $\mu$ ., partim 4-6  $\mu$ . cr. constans, fungos 2 emittens; pileus 8-17 cm.; lamellæ circ. 2 mm. lat.; stipes 4-6 cm. long., 1,3 mm. lat.

10. *Lentinus melanopus* Pat. Bull. Soc. Myc. 1892, p. 47. — Pileo 262  
orbiculari, plano-convexo, centro profunde umbilicato, glabro, levi  
v. tenuiter striatulo, sicco, tenaci, tenui, albo, margine integro;  
lamellis siccis, albescentibus dein subrubescentibus, angustis, nu-  
merosis, inæqualibus, crenulatis, decurrentibus; stipite centrali,  
plano, gracili, sicco, tenaci, glabro, annulo nullo, superne albo,  
basi nigrescenti.

*Hab.* ad ligna annosa, Tonkin (Bon). — Pileus 3-5 cm. diam.; stipes  
2-5 cm. long., 2 mm. cr.

11. *Lentinus Bonii* Pat. Bull. Soc. Myc. 1892, p. 48. — Pileo plano- 263  
concavo, squamuloso, griseo, sicco, margine revoluti; lamellis albis  
spissis, integris, æqualibus, angustis, decurrentibus; stipite plus mi-  
nus anguloso, flavo, albido, tenaci; annulo lato, margine lacerato.

*Hab.* ad ligna annosa Tonkin (Bon). — Pileus 1-3 cm. diam.;  
stipes 2-3 cm. long., 6-10 mm. cr.

12. *Lentinus undulatellus* Britz. Hym. Südbayer IX, p. 19, f. 19 (*Tro-* 264  
*gia crispa*).

*Hab.* in silvaticis Baviariæ australis. — Corneo-griseus; sporæ  
6-7  $\mu$ .

PANUS Fr. — Syll. V, p. 614, IX, p. 76.

1. *Panus obducens* Pat. et Hariot Bull. Soc. Myc. 1893, p. 208. — 265  
Pileo flabellatim cyathiformi, postice marginato, fragili, membra-  
naceo, erecto, margine involuto, integro, albido-alutaceo, postice  
vix tomentoso; lamellis tenuibus subconfertis, albidis, longe decur-  
rentibus; stipite excentrico, caperato, albido, æquali.

*Hab.* in regione congoana Afr. centr. (DŹBOWSKI). — Pileus  
2-3 cm. lat; stipes 1 cm. long., 3-4 mm. cr. — *P. conchato* affinis.

2. *Panus applanatus* Massee Journ. of Bot. 1892, p. 196, t. 325, f. 5. 266  
— Resupinatus, coriaceus, applanatus, orbicularis, sessili-adnatus,  
extus pallide ochraceus, tomentosus; lamellis latiusculis, concurren-  
tibus, pallide ochraceis; sporis ellipsoideis, 6  $\mu$  3.

*Hab.* ad truncos, Walliboo Valley Ind. occid. — Pileus 2-4 cm.  
diam., tenuissimus. *P. patellari* affinis.

3. *Panus cantagallensis* G. de Beck Itin. princ. Cob. p. 147, t. 16. 267  
f. IV. — Pileo flabelliformi, sessili, margine undulato-inciso, mem-

branaceo, ochroleuco innato-tomentoso, sicco fragili albo subrugoso; lamellis radiatis simplicibus conspicuis, margine minus prominentibus, siccis carneo-alutaceis; sporis albis 6-7 = 2,5.

*Hab.* ad truncos putres, Cantagallo Brasilæ. — Pileus 2,5-4 cm. long.

4. **Panus tenuis** Wettst. Beitr. Pilzfl. d. Bergwerke p. 4. — Pileo tenui, reniformi v. suborbiculari, e convexo plano-expanso v. subundulato, ochraceo v. subfusco, coriaceo-membranaceo, glabro, subnitido; stipite laterali, obliquo; lamellis numerosis, tenuissimis, densis, integris, pileo concoloribus; sporis ovatis v. subglobosis 1,5-2,5 = 1-1,5.

*Hab.* ad truncos udos in fodina plumbea, Deutsch-Feistritz Stiria. — Pileus 1 cm. diam. v. 8-12 mm. long., 10-15 mm. lat.; stipites 4-8 mm. long., 1-2 mm. cr. *P. stipitico* affinis.

**XEROTUS** Fr. — Syll. V, p. 630, IX, p. 78.

1. **Xerotus glaucophyllus** Cooke et Massee in Grev. XX, p. 120. — 269

Pileo flabelliformi, tenui, plerumque sublobato, sulcato, glabro, opaco, siccitate atro,  $1\frac{1}{2}$ - $2\frac{1}{2}$  cm., margine abrupte recurvo; lamellis paucis, distantibus, latis, acutis, venoso-connexis, pallide lateritiis, siccitate argillaceo-glaucis; sporis globosis, 6  $\mu$ . diam.

*Hab.* ad ramos Novæ Zelandiæ (COLENSO). — [Pileus 1,5-2,5 cm. diam.

**LENZITES** Fr. — Syll. V. p. 637, IX, p. 78.

1. **Lenzites bifasciata** C. et Massee in Grev. XXI, p. 37. — Pileo reniformi v. conchiformi, basi late adnexo, coriaceo, tenui, griseo-fulvo, prope marginem et verticem zona angusta saturatius fuliginea cincto, sericeo; lamellis non confertis, latiusculis, umbrinis.

*Hab.* ad corticem, Victoria Australiæ (MARTIN).

2. **Lenzites madagascariensis** P. Henn F. Afr. II, p. 30, tab. I, f. 6. 271

— Pileo coriaceo, tenui, subsessili, applanato, zonato rigido-sulcato, cinereo, rugoso, setis rigidis, fasciculatis, compressis, brunneis vestito; lamellis crassiusculis, inæqualibus, ramosis, anastomosantibus, postice lamellosis, alutaceis, acie sinuata, cinnamomea.

*Hab.* ad caules prope Ankoraka in insula Madagascar. — Pileus 3 cm. long., 5 cm. lat., 5 mm. cr.

**SCHIZOPHYLLUM** Fr. — Syll. V, p. 654, IX, p. 81.

1. **Schizophyllum Murrayi** Massee Journ. of Bot. 1892, p. 164, f. 322, 272

f. 13-14. — Sessile; pileo flabelliformi, inciso-lobato, coriaceo, rigido, sordide ochraceo, tomento brevi, molli oblecto; lamellis radiantibus bifidis villosis, angustis, rubentibus v. brunneolis; sporis vinosis, globosis, echinulatis, 9-10  $\mu$ . diam.

*Hab.* ad truncos in insula Grenada Indiæ occid. — Pileus 5-7,5 cm. *S. communi* valde affine.

## Sect. 2. Rhodosporae.

**VOLVARIA** Fr. — Syll. V, p. 656, IX, p. 82.

1. **Volvaria volvacea** Fr. — Syll. V, p. 657 — var. *fennica* Karst. 273  
Hedw. 1891, p. 246. — Pileo cinereo, fibrillis nullis v. maxime obsoletis virgato; volva ampla 2-4-loba, fusco-atrata.

*Hab.* in vaporiis, Mustiala Fenniae (KARSTEN).

2. **Volvaria gloiocephala** Fr. — Syll. V, p. 662. — Var. *abyssinica* 274  
P. Henn. F. Afr. p. 355. — Pileo albo-nitenti, umbone colore carneo prædito, 8 cm. lat.; stipite usque ad 6 cm. alt., albo, levi; sporis ellipsoideis v. ovato-ellipsoideis, 10-13  $\approx$  7-9.

*Hab.* ad Saati Abyssiniae.

3. **Volvaria viscosa** Clements Univ. Nebr. Bot. Surv. 1893, II, p. 37. 275  
— Pileo carnosio, campanulato-convexo, levi, viscosissimo, fulvo-ochraceo; stipite prominenter bulboso, sursum subæquali, solido, levi, ochraceo; volva ampla, lobata, concolori; lamellis confertis, brunneis; sporis ovoideo-ellipsoideis, dilute carneis, ample 1-guttatis, 8  $\approx$  5.

*Hab.* in stercore equino, Squaw canon Amer. bor. — Pileus 6 cm. diam.; stipes 6 cm. long., basi 1,5 cm., supra 0,5 cm. cr. *V. primulinæ* affinis.

4. **Volvaria cellaris** (Brond.) Quél. Rev. Myc. 1892, p. 64, *Agaricus* 276  
Brond. Cr. Ag. IV, p. 13. — Pileo campanulato-convexo, piloso; lamellis albis dein incarnatis, inflatis; stipite fistuloso, glabro, volva ellipsoidea et vix lobulata.

*Hab.* in cellis vinariis, Agenais Galliae (BRONDEAU). — Pileus 1 cm. diam. — *V. bombycinæ* affinis.

**ANNULARIA** Schulz. — Syll. V, p. 668, IX, p. 82.

1. **Annularia sansibarensis** P. Henn. F. Afr. II, p. 36. — Pileo car- 277  
noso, expanso, centro subumbonato, squamis latis, membranaceis, obscurioribus, margine dense radiato-striato, levi et nudo; stipite

fistuloso, glabro vix longitudinaliter striato, basi bulboso incrassato; annulo membranaceo, completo, laxo; lamellis confertis, latis, sinuato-adnatis; sporis 11-14  $\approx$  8-9.

*Hab.* ad stipites Cocos emortuos, Sansibar Africae. — Pileus 6-10 cm. diam.; stipes 10-16 cm. long., usque ad 2 cm. cr. — *A. Goliath* affinis.

**PLUTEUS** Fr. — Syll. V, p. 665, IX, p. 83. — Ad hoc genus, teste Cooke Grev. XIX, p. 80, spectat *Galera mucidolens* Berk. — Syll. V, n. 3563, ob sporas roseas, 8  $\approx$  5-6.

1. *Pluteus arenarius* Pat. Rev. Myc. 1891 p. 136. — Pileo orbiculato, convexo plano, subconcavo, centro modice elevato, glabro, albonitenti, levi, tenuissimo; lamellis mollibus, liberis, circa summitem stipitis circulariter sulcatis; sporis levibus, ovoideis, apiculatis, roseolis 12-15  $\approx$  8-10; stipite albo, fistuloso, inferne inflato.

*Hab.* in deserto Arabiae. — Pileus 2-3 cm. diam.; stipes 2-3 cm. long., 5-6 mm. cr.

2. *Pluteus Romellii* Britz. Hym. Südb. VIII, p. 5, fig. 113. 279

*Hab.* ad terram hortorum Bavariae australis. — Atro-purpureus; sporæ 6-7  $\mu$ . diam. *P. nano* affinis.

**SCHINZINIA** Fayod in Verh. bot. Ver. Brand. 1890, p. 227, t. III (Etym. a cl. H. Doct. SCHINZ). Characteres *Plutei* sed substantia lenta. Superficies pilei ex hyphis brevibus irregularibus ramosis texta; trama dense homomorpha ex hyphis ossiformibus curtis regulariter contexta; subhymenium ramoso-pseudoparenchymaticum; basidia paraphysi similia 4-sterigmica; sporæ ovoideæ, apiculatæ, carneæ.

1. *Schinzinia pustulosa* Fayod l. c. — Pileo carnoso, compacto, pulvinato-expanso, margine inflexo, aureo-citrino, verruculoso; stipite æquali, medullosa-farcto, flavescenti; lamellis extremitatibus attenuatis, adnexis, confertis, sordide carneis; sporis 4  $\approx$  3 carneis.

*Hab.* in locis arenosis, Olukonda Africae. — Pileus 5 cm. diam.; stipes 5 cm. long., 1 cm. cr. — Habitus *Annulariae xanthogrammae*.

**ENTOLOMA** Fr. — Syll. V, p. 679, IX, p. 83.

1. *Entoloma fuliginarium* Karst. Hedw. 1892, p. 292. — Pileo carnoso, tenui, e convexo-hemisphaerico subdepresso, glabro, margine primo infracto pellucide striatulo, piceo-liventi; stipite farcto æquali subundulato-striato glabro, basi villosa, apice albo-pruinoso, pileo pallidiore; lamellis adnatis, confertis, oblongatis, pallidis.



*Hab.* inter Hypna in silva acerosa Mustiala Fennicæ. — Pileus 2 cm. lat.; stipes usque ad 6 cm. alt. et 4 mm. cr. — *C. atrato* affine.

2. *Entoloma præcox* Karst. Hedw. 1893, p. 59. — Pileo submembr- 282  
naceo, fragili, conico-convexo, demum umbonato, glabro, sericeo-ni-  
tenti; stipite fistuloso, æquali, compresso, glabro, striato, pallescenti,  
fragili; lamellis postice attenuatis, ventricosis, confertis, sordidis  
dein incarnatis; sporis 7-10 diam.

*Hab.* locis arenosis, Mustiala Fennicæ. — Pileus 3-6 cm. lat.;  
stipes 3-6 cm. long., 6 mm. cr.

3. *Entoloma mimicum* Karst. Symb. Myc. Fenn. XXXII, p. 3. — Pi- 283  
leo membranaceo, campanulato v. hemisphærico, obtuso dein ex-  
panso, glabro, fusciscenti, stipite e farcto cavo, æquali, tereti,  
stricto, rigido-fragili, cartilagineo, glabro, striatulo, livido; lamellis  
adnatis mox secedentibus, albidis dein sordidis; sporis 9-12  $\mu$ . diam.

*Hab.* ad Mustiala Fennicæ. — Pileus 1,5 cm. alt., 3 cm. lat.;  
stipes 7 cm. long., 2 mm. cr. *E. sericeo* (Bull.) affine.

4. *Entoloma turbidatum* Britz. Hym. Südb. VIII, p. 5, fig. 119. 284

*Hab.* in silvaticis Bavaricæ australis. — Sp. 12-14  $\approx$  8-10. *E.*  
*turbido* affine.

5. *Entoloma sericatum* Britz. Hym. Südbayer IX, p. 8, f. 161, 167. 285

*Hab.* in Bavaria australi. — Brunneum, in sicco sericeum; spo-  
ræ 8-10  $\mu$ . diam. *E. sericeo* affine.

6. *Entoloma mediocre* Britz. Hym. Südbayer IX, p. 8, f. 146. 286

*Hab.* in pratis Bavaricæ australis. — Flavo-brunneum, margine  
pallidiore; sporæ 10-11  $\approx$  8. *E. turbido* affine.

7. *Entoloma sublividum* Britz. Hym. Südb. VIII, p. 5, fig. 114. 287

*Hab.* Ad terram in Bavaria australi. — Sporæ 11-12  $\approx$  7-8.

8. *Entoloma praticolum* Britz. Hym. Südbayer IX, p. 8, f. 160. 288

*Hab.* in pratis Bavaricæ australis. — Brunneum; sporæ 8-10  $\mu$ .  
diam. *E. sericeo* affine.

9. *Entoloma principale* Britz. Hym. Südbayer X, p. 163 f. 10 (*A.* 289  
*porphyrophæus*), 139.

*Hab.* in pascuis umbrosis Bavaricæ australis. — Griseo-viola-  
scens; sporæ 8-10  $\mu$ . diam. *E. porphyrophæo* affine.

# CLITOPILUS Fr. — Syll. V, p. 698, IX, p. 85.

1. *Clitopilus cyathoides* C. et Massee Grev. XXI p. 36. — Simplex 290  
v. gregarius; pileo tenuiculo, convexo, umbilicato, dein infundibu-  
lari, irregulari, pallido, levi, margine incurvo, æquali; stipite sub-

æquali, substriato, pallido, cavo, albo, basi lanato, mycelio albo-floccoso; lamellis confertiusculis, angustis, decurrentibus, albis, demum subdecolorato; sporis angulatis, irregularibus, 10-12  $\approx$  8.

*Hab.* infra caudices, Victoria Australiæ (MARTIN). — Pileus 2-4 cm. lat.; stipes 2-3 cm. long., 6-8 mm. cr.

2. *Clitopilus cinereifolius* Britz. Hym. Südbayer X, p. 163, f. 174. 291

*Hab.* in silvaticis Baviariæ australis. — Ex albo griseus; sporæ 6  $\approx$  4-5. *C. undato* affinis.

3. *Clitopilus rhodosporus* Britz. Hym. Südbayer X, p. 163, f. 97. 292

*Hab.* in silvaticis Baviariæ australis. — Bruneo-rubescens v. lilacino-griseus; sporæ 6-7  $\approx$  4-5. *C. propinali* affinis.

4. *Clitopilus recollectus* Britz. Hym. Südbayer IX, p. 8, f. 164. 293

*Hab.* ad sepes Baviariæ australis. — Flavo-brunneus; sp. 6-7  $\approx$  3. *C. propinali* affinis.

5. *Clitopilus mirificus* Britz. Hym. Südbayer IX, p. 8, f. 155. 294

*Hab.* in silvis fagineis Baviariæ australis. — Isabellino-ochroleucus; sporæ 6  $\approx$  4. *C. propinali* affinis.

6. *Clitopilus carnoso-tenax* Britz. Hym. Südbayer IX, p. 8, f. 165. 295

*Hab.* in silvaticis Baviariæ australis. — Albido-brunneus obsolete zonatus; sporæ 5-6  $\approx$  4. *C. hydrojonidi* affinis.

7. *Clitopilus subignotus* Britz. Hym. Südbayer VIII, p. 6, fig. 122. 296

*Hab.* in silvaticis Baviariæ australis. — Flavo-rubro-lilacinus; sporæ 10  $\approx$  7,5 subangulosæ.

**LEPTONIA** Fr. — Syll. V, p. 706, IX, p. 87.

1. *Leptonia parva* Peck 45, Rep p. 18. — Pileo tenui, convexo v. subplano, umbilicato, subradiato-striato, violaceo-brunneo, umbilico atriore et squamuloso; lamellis subdistantibus, adnatis, albidis subcarneis; stipite gracili, glabro, solido, pileo concolori; sporis irregularibus v. angularibus, 7,5  $\approx$  5.

*Hab.* in silvis Amer. bor. — Pileus 12 mm. lat.; stipes 2,5 cm. long. *L. serrulatæ* affinis.

2. *Leptonia grisea* Peck 45 Rep. p. 19. — Pileo late convexo v. plano, umbilicato, humecto striatulo, glabro, umbilico squamuloso, griseo-brunneo; lamellis latis, subdistantibus, griseolis; stipite gracili, cavo, glabro, pileo concolori; sporis subglobosis, angularibus 8-10  $\mu$ . diam.

*Hab.* in sphagnetis et ad ligna humida, Amer. bor. — Pileus 12-24 mm. lat.; stipes 4-6 cm. long.

3. *Leptonia melanura* Cooke et Masee in Grev. XIX, p. 89. — Pi- 299



leo campanulato, subumbonato, dein expanso, nigro nitenti, radiatim fisso; stipite cylindraceo, basi radicante abrupte incrassato, griseolo, nigro-striato; lamellis stipitem attingentibus, lanceolatis, pallidis, dein roseis, acie nigrescenti, linea atra cystidiorum notata; cystidiis atris, magnis, sterigmatibus 2-3, obtusis; sporis ovato-globosis, 7  $\approx$  5.

*Hab.* ad terram, Oakleigh; Victoria Australiæ. — Pileus 2 cm. lat.; stipes 5-6 cm. long., 2 mm. cr.

4. *Leptonia incarnato-fuscescens* Britz. Hym. Südbayer VIII, p. 6, 300 fig. 137.

*Hab.* in silvaticis Baviariæ australis. — Sp. 10-12  $\approx$  6-8.

5. *Leptonia ejuncida* Britz. Hym. Südbayer VI, p. 16; fig. 100 (Agar.) 301

*Hab.* in silvaticis Baviariæ australis. — Atro-cyanea; sporæ 10-14  $\approx$  9-10.

6. *Leptonia transnumerata* Britz. Hym. Südbayer IX, p. 8, f. 166. 302

*Hab.* in sphagnetis Baviariæ australis. — Flavo-brunnea, centro brunnea; sporæ 8-9  $\approx$  6. *L. asprellæ* affinis.

**NOLANEA** Fr. — Syll. V, p. 716, IX, p. 88.

1. *Nolanea papillata* Bres. Fung. Trident. I, p. 75, tav. 82, f. 1. — 303

Pileo submembranaceo, e convexo expanso, papillato, striato, fusco-badio, sicco subcinnamomeo; lamellis subconfertis, ex albido carneolis, postice sinuato-adnatis; stipite fistuloso, nitido, glabro, basi tomentoso; sporis 5-7-angulatis, 10-11  $\approx$  6-7.

*Hab.* locis graminosis apricis v. silvaticis agri Tridentini. — Pileus 2-3 cm. lat.; stipes 4-5 cm. long., 2 mm. cr. *N. clandestinæ* affinis.

2. *Nolanea cuneata* Bres. Fung. Trident. I, p. 77, tab. 82, f. 2. — 304

Pileo submembranaceo, conico-cuspidato, glabro, striato, luride luteo, cuspidate flavido; lamellis subdistantibus, ventricosis, adnexis e flavido fuscidulis; stipite fistuloso flavido, apice albo-furfuraceo, basi fibroso contorto; sporis 5-6-guttatis, 10-12  $\approx$  7-8.

*Hab.* in silvis et locis sabulosis cæspitose in agro Tridentino. — Pileus 12-17 mm. lat.; stipes 3-4 cm. long., 1,5-2 mm. cr. *N. celratæ* Fr. proxima.

3. *Nolanea pellucidula* Britz. Hym. Südbayer IX, p. 9, f. 147. 305

*Hab.* ad muscos in silvis Baviariæ australis. — Pallide brunneo-carnea; sporæ 10-12  $\approx$  6-8. *N. Kretschmari* affinis.

4. *Nolanea subacceptanda* Britz. Hym. Südb. VIII, p. 6, fig. 124. 306

*Hab.* in Bavaria australi. — Brunnea; sporæ 9-10  $\approx$  6-7,5.

5. *Nolanea summissa* Britz. Hym. Südb. VIII, p. 6, fig. 102, 131. 307

*Hab.* ad sepes Baviaræ australis. — Ochracea; sporæ 8-10  $\approx$  7-8.

**CLAUDOPUS** W. Sm. — Syll. V, p. 733, IX, p. 89.

1. *Claudopus Terracciani* Bres. Contr. Fl. Afr. orient. p. 4, t. VIII, f. 3. — Pileo membranaceo, suborbiculari vel reniformi, postice adnato, glabro, albo, ruguloso, margine striato, sessili v. stipite brevi, incurvo, laterali basi albo-fibrilloso prædito; lamellis ventricosis, latis, subconfertis, ex albo carneis, postice rotundato-adnatis; sporis 5-6-guttatis, roseolis, 8-9  $\approx$  5-6.

*Hab.* ad truncos in silva Fekerie-Ghemb Afr. orient. — Pileus 8-15 mm. lat. *C. variabili* forma et colore, *C. byssisedo* sporis similis.

2. *Claudopus Englerianus* P. Henn. F. Afr. II, p. 35, t. I, f. 9. — 309  
Pileo subcarnoso tenaci, substipitato, convexo, conchiformi v. subflabelliformi, integro, velutino, viscidulo, levi, flavo, margine undulato; lamellis inæqualibus basi decurrentibus, latis, vix confertis, pallidis, dein subincarnato-flavescentibus; sporis subcarneis, 4-5  $\approx$  3-4.

*Hab.* ad truncos, Ankoraka in insula Madagascar. — Pileus usque ad 2 cm. long., 1 cm. lat. *C. variabili* affinis.

3. *Claudopus reptans* Britz. Hym. Südbayer IX, p. 9, f. 157. 310

*Hab.* ad Marchantiam polymorpham in Bavaria australi. — Brunneo-carneus; sporæ 10  $\approx$  6 *C. depluenti* affinis.

4. *Claudopus odorativus* Britz. Hym. Südbayer IX, p. 9, f. 41, 153. 311

*Hab.* ad caudices pineos Baviaræ australis. — Ochroleucus; sporæ 6-7  $\approx$  2-3 curvæ.

### Sect. 3. Ochrosporæ

**PHOLIOTA** Fr. — Syll. V, p. 736, IX, p. 90.

1. *Pholiota humicola* (Quél.) Sacc. *Dryophila humicola* Quél. Champ. Jura Suppl. XVIII, p. 3, t. II, f. 10. — Pileo campanulato convexo, pallide-flavo, maculato; stipite gracili, fistuloso, flavescenti, maculato; lamellis adnatis v. uncinatis, flavescentibus dein lutescentibus; sporis pruniformibus, flavis, 11-12  $\mu$ . diam.

*Hab.* ad terram muscosam, Jura. — Pileus 2-3 mm. lat. *Ph. squarrosæ* Müll. forte varietas.

2. *Pholiota rubecula* Bann. et Peck 44 Rep. p. 70. — Pileo carnoso, 313  
siccò, levi, nitenti, expanso, pro ætatè centro depresso, subrufe-

scenti, margine involuto, lamellis adnatis, non remotis, rubentibrunneo; stipite solido, æquali.

*Hab.* ad radices arborum v. terram, Baltimore Amer. bor.

3. *Pholiota mollicula* Bann. et Peck 44 Rep. p. 70. — Pileo carnoso, 314 levi, hygrophano, albido, disco in saturate flavum vergenti; contextu udo, æquali, lamellis confertis, emarginatis, albis, pro ætate cinnamomeis; stipite farcto, dein cavo, pubescenti, demum levi, albo, regulari; annulo magno, albo; sporis 7,5  $\approx$  5, ferrugineis, subirregularibus.

*Hab.* ad radices arborum in silvis, Druid Hill Park Amer. bor.

— Fungus mox evanescens.

4. *Pholiota speciosa* Clements Univ. Nebr. Bot. Surv. 1893, II, p. 41. 315 — Pileo carnoso, plano-convexo, squamoso, umbonato, sordide albo; stipite fristuloso, crasso, æquali, albo; annulo parvo, albo; lamellis liberis, confertis, fuligineis; sporis umbrinis, ovoideis, 1-2-guttatis, 5  $\approx$  3,5.

*Hab.* ad Sioux county Amer. bor. — Pileus 4-6 cm. lat.; stipes 5 cm. long. Affinis *P. gibberosæ*.

5. *Pholiota socotrana* P. Henn. Fung. Afr. I, p. 355. — Pileo carnoso, 316 convexo explanato, luteo-fulvo v. aureo, squamis confertis obscurioribus, adpressis, persistentibus tecto, margine tenui; stipite farcto tenui, levi, flavo-purpureo, subradicato, annulo submembranaceo, deciduo; lamellis adnatis, latis, ochraceo-ferrugineis; sporis subellipsoideis, flavo-ochraceis, 8-11  $\approx$  3-4.

*Hab.* ad stipites Palmarum putres in insula Socotra Africæ. — Pileus 1-1,5 cm. diam.; stipes 1,5-2 cm. long., 2 mm. cr.

6. *Pholiota Engleriana* P. Henn. F. Afr. II, p. 35. — Pileo carnoso e 317 campanulato-convexo v. depresso-hemisphærico explanato, sicco, squamis verrucosis imbricatis, latis innatis tecto, fusco-ochraceo, margine inflexo; stipite farcto dein cavo, brevi, glabro, levi, annulo membranaceo-floccoso, persistenti; lamellis sinuato-affixis, non decurrentibus, ochraceis, fuscis, latis, dense confertis; sporis bruno-fuscis 5-7  $\approx$  4-5.

*Hab.* ad basim truncorum, Togo Africæ centr. — Pileus usque ad 6 cm. diam.; stipes usque ad 3 cm. long., 1,5 cm. cr. *Ph. squarrosæ* affinis.

7. *Pholiota sororia* Karst. Hedw. 1892, p. 297. — Pileo carnoso e 318 convexo expanso, striatulo, squamuloso, fulvescenti-cinnamomeo; stipite fistuloso, æquali, flexuoso, melleo-pallenti, squamulis fibrillosis albis variegato, apice furfuraceo; lamellis sinuato-adnatis confertis e pallido-cinnamomeis; sporis 6-7  $\approx$  3-4.

*Hab.* ad ramenta lignea, Mustiala Fenn. — Pileus 3 cm. diam.; stipes 5 cm. long., 2-4 mm. cr. A *Ph. marginata* parum differt.

8. *Pholiota disrupta* Cooke et Mass., Grev. XIX, p. 89. — Pileo con- 319  
vexo, carnoso, cremeo, primo levi, dein in areolas magnas præci-  
pue circa discum disrupto, margine incurvo; stipite elongato, cy-  
lindraceo, in pileum expanso, subinde basi leniter incrassato, pileo  
concolori, cavo, striato, rimoso et subsquamuloso, mycelio valido  
insidenti; annulo angusto, pendulo; lamellis adnatis, subventricosis,  
latis, non confertis, albido-roseis, dein umbrinis; sporis ellipsoideis  
brunneis,  $14 \approx 9$ .

*Hab.* ad terram, Victoria Australiae (Domina MARTIN). — Pileus  
8-10 cm. lat.; stipes  $10 \approx 1-1.5$ . *Ph. pudicæ* affinis.

9. *Pholiota mellea* Karst. Hedw. 1892, p. 219. — Pileo carnosulo e 320  
convexo plano, levi, glabro, melleo; stipite farcto, flexuoso v. sub-  
striato, glabro, albescenti; lamellis subliberis denticulo angusto pal-  
lidiores adfixis, confertis, ventricosis, fuscescentibus; sporis fuscis  
 $8-12 \approx 6-9$ ; annulo persistenti.

*Hab.* in cæspitibus Airæ cæspitosæ ad folia putrescentia Mustiala  
Fenniae. — Pileus 1-3 cm. diam.; stipes 5-7 cm. long., 2-7 mm. cr.  
A *Ph. unicolori* (forma typica) Fr. Mon. Hym. 320 colore præci-  
pue differt.

10. *Pholiota arcuatifolia* Britz. Hym. Südbayer X, p. 164, f. 411. 321

*Hab.* in silvaticis Bavariæ australis. — Flavo-rubro-fusca; spo-  
ræ  $6 \approx 3$  flavidæ. *Ph. sphaleromorphæ* affinis.

# **INOCYBE** Fr. — Syll. V, p. 762, et IX, p. 95 \*).

1. *Inocybe pusilla* Bres. Fung. Trident. p. 81, tab. 88. — Pileo car- 322  
noso e campanulato expanso-umbonato sericeo, fibrilloso demum la-  
cerato-rimoso, argillaceo v. griseo-fuscidulo v. e fusco expallenti,  
margine persistenti luride albido, sicco; lamellis subconfertis, stri-  
atis, postice sinuato-adnatis, cinerescentibus, acie crenulatis; stipite  
farcto, roseolo, tereti, basi subattenuato; sporis angulatis  $8-10 \approx 6-7$ .

*Hab.* in nemoribus, coryletis etc. — Pileus 1,5-3 cm. lat.; sti-  
pes 3-4,5 cm. long., 3-4 mm. cr. *I. perbrevis* Weinm. affinis.

2. *Inocybe squarrosula* Karst. Symb. Myc. Fenn. XXXII, p. 7. (*Clypeus*) 323

\*) Teste Cooke in Grev. XIX, p. 104, *Hebeloma psamminum* (Berk.), *H. Micropyramis* (B. et Br.) et *H. ignobile* (Berk.) in Syll. V, n. 3297, 3269, 3313, ad gen. *Inocybe* spectant et hinc *I. psammina*, *I. Micropyramis* et *I. ignobilis* sunt dicendæ.

— Pileo carnosulo convexo-plano, obtuso, fibrilloso, fusciscenti, disco squamuloso-squarroso, fusco; stipite æquali, fusciscenti-squamuloso; lamellis confertis, subventricosis, fusciscentibus, albo-crenulatis; sporis  $10 \approx 7-8$ .

*Hab.* ad truncos Pini, Mustiala Fennicæ. — Pileus 1-2 cm. diam.; stipes 2-3 cm. long., 5 mm. cr. *Cl. lanuginoso* affinis.

3. *Inocybe fulvella* Bres. F. Trid. II, p. 16, t. 119, f. 2. — Pileo 324  
carnosulo-membranaceo, subhygrophanus, expanso-umbonato, sericeo-flocculoso, centro glabro ex olivaceo lutescenti v. olivaceo-fusco; lamellis subdistantibus, ventricosis, e pallido lilacinis ochraceo-cinnamomeis; stipite farcto, glabro, deorsum attenuato, apice albo-pruinoso, violaceo-lutescenti; sporis luteis, angulatis,  $8-9 \approx 5-6$ ; basidiis clavatis  $25-30 \approx 8-10$ .

*Hab.* in silvis frondosis in agro Tridentino. — Pileus 6-12 mm. diam.; stipes 2-2,5 cm. long., 1-1,5 mm. cr. caro lutescens, odore subterreo, sapore nullo; cystidia  $45-60 \approx 12-18$ .

4. *Inocybe sabuletorum* Berk. et Curt. n. 857, Grev. XIX, p. 103 325  
(*Agaricus*). — Pileo carnosulo, convexo, applanato, tenui, sericeo, umbrino; stipite gracili, æquali, concolori, glabro; lamellis lanceolatis, adnatis, vix confertis, umbrinis; sporis angulatis,  $12 \mu$ . long.; basidiis majusculis.

*Hab.* in pinetis sabulosis, Carolina Amer. bor. — Pileus 1 cm. diam.; stipes 2 cm. long.

5. *Inocybe decipiens* Bres. F. Trid. II, p. 13, t. 118. — Pileo car- 326  
nosulo, e convexo-expanso-umbonato, flocculoso; sericeo, centro levius, dein squamuloso-diffracto, cinnamoneo-ochraceo; lamellis confertis, latis ventricosis, acie obsolete fimbriatis, postice rotundato v. sinuato-adnexis, ex albo cinereis, tandem luride cinnamomeis; stipite farcto, glabro, apice subpruinoso, pallido, basi marginato-bulbosus; sporis luteis, angulatis,  $11-14 \approx 6-8$ ; basidiis clavatis  $25-30 \approx 7-8$ .

*Hab.* in herbis silvaticis in agro Tridentino. — Pileus 3-5 cm. diam.; stipes 4-5 cm. long., 6-9 mm. cr.; caro albida, odore terreo sapore miti.

6. *Inocybe rhodiola* Bres. Fung. Trident. I, p. 80, t. 87. — Pileo 327  
carnosulo, expanso, umbonato, fibrilloso-squamoso, rufescenti expallenti, ætate fusco-maculato; lamellis subconfertis ex albido-terreo olivaceo-ferrugineis, acie albo-pruinosis, ætate rufo-fusco-maculatis; stipite farcto, fibrilloso, apice glabro, subæquali, sursum lutescenti, deorsum rubro-vinoso, tactu fusco-rufo-maculato; sporis flavo-aureis,  $10-12 \approx 6-7$ .



*Hab.* locis herbidis juxta vias agri Tridentini. — Pileus 3-6 cm. lat. *I. dstrictæ* Fr. et *I. laceræ* Fr. affinis.

7. *Inocybe tuberosa* Clements Univ. Nebrask. Bot. Surv. 1893, II, 328 p. 40. — Pileo expanso, squamoso, carnoso, saturate brunneo; stipite tuberoso, supra æquali, gilvo; lamellis potius paucis, adnexis, saturate brunneis; sporis obtusis ovoideo-ellipsoideis, uno apice apiculatis, 1-guttatis,  $6 \approx 4$ .

*Hab.* ad Sioux county Amer. bor. — Pileus 3 cm. lat.; stipes 4 cm. long., basi 10 mm., supra 7 mm. cr. Affinis *I. insequenti*.

8. *Inocybe subgranulosa* Karst. Hedw. 1892, p. 293. — Pileo carno- 329 sulo e convexo explanato, interdum centro leviter depresso v. obsoleto umbonato, levi, pallide ochraceo, præcipue disco squamulis erectis exiguis obscurioribus obsesso, subinde adpresse fibrilloso; stipite e farcto cavo, rigido, æquali v. deorsum attenuato, curvato v. flexuoso, basi bulbillo subterraneo prædito, pileo pallidiore; lamellis adnatis, secedentibus, confertis, viridi-cinnamomeis tandem fusco-cinnamomeis; sporis fuscis,  $7-9 \approx 4-5$ .

*Hab.* ad terram arenosam apricam, Mustiala. — Pileus 2-4 cm. lat.; stipes 2-3 cm. long., 3-4 mm. cr.; odor et sapor nulli; caro alba. *I. delectæ* Karst. simillima atque affinis.

9. *Inocybe Cookei* Bres. F. Trid. II, p. 17, t. 121. — Pileo carnoso 330 expanso-umbonato, margine demum revoluta-fisso, sericeo-rimoso, centro glabro, flavo-lutescenti; lamellis confertis e griseo ochraceis, acie albo-fimbriata; stipite solido, æquali, pileo concolori, sericeo-fibrilloso, apice nudo, basi marginato-bulbilloso; sporis  $8-10 \approx 5-5.5$ ; basidiis  $30-35 \approx 7-8$ .

*Hab.* in silvis abiegnis gregaum in agro Tridentino. — Pileus 3-5 cm. diam.; stipes 4-7 cm. long., 5-7 mm. cr.; caro albo-straminea odore subterreo. *I. fastigiata* proxima.

10. *Inocybe rubro-indica* Bann. et Peck 44 Rep p. 70. — Pileo primo 331 campanulato, obtuso, sicco, longitudinaliter rimoso, micanti, disco carnoso, margine tenui; contextu albo v. leniter roseolo; lamellis adnatis, confertis, furcatis, lanceolatis, e cremeo brunneolo-ochraceis; stipite subregulari, contorto, fibrillis rubentibus notato, farcto, duro, fragili.

*Hab.* in apricis silvaticis, Frederick county Amer. bor.

11. *Inocybe holophlebia* Berk. in Herb., Grev. XIX, p. 104 (*Agaricus*). 332 — Pileo carnosulo, campanulato, expanso, late umbonato, floccoso-fibrilloso, cervino; stipite pallido, farcto, cylindrico, æquali; lamel-

lis latis, adnatis, vix confertis, postice attenuatis, argillaceis, demum umbrinis; sporis levibus, ellipticis,  $10 \approx 6$ .

*Hab.* ad terram Masulipatam Indiæ. — Pileus 3-6 cm. diam.; stipes 6 cm. long., 4 mm. cr.

12. *Inocybe aureo-lamellata* Britz. Hym. Südbayer X, p. 165, f. 400. 333

*Hab.* in silvaticis Baviaræ australis. — Flavo-aurea, centro obscurior; sporæ  $10 \approx 8$ . *I. auricomæ* affinis.

13. *Inocybe favorabilis* Britz. Hym. Südbayer IX, p. 10, f. 361. 334

*Hab.* in silvaticis Baviaræ australis. — Tota sordide flavo-rufescens; sporæ  $10 \approx 5-6$ . *I. absistenti* et *I. obscuræ* affinis.

14. *Inocybe albido-incarnata* Britz. Hym. Südbayer IX, p. 10, f. 245. 335

*Hab.* in Bavaria australi. — Sporæ 3-4  $\mu$ : diam. *I. Tricholomati* affinis.

15. *Inocybe pseudo-scabella* Britz. Hym. Südbayer IX, pag. 10, f. 318, 367. 336

*Hab.* in Bavaria australi. — Fusco-rufescens; sporæ  $10-12 \approx 4-6$ .

16. *Inocybe farcta* Britz. Hym. Südbayer IX, p. 10, f. 377. 337

*Hab.* ad sepes Baviaræ australis. — Albida; sporæ 4  $\mu$ : diam. *I. Tricholomati* affinis.

17. *Inocybe duella* Britz. Hym. Südbayer IX, p. 10, f. 369. 338

*Hab.* in silvaticis Baviaræ australis. — Rubro-brunnea; sporæ  $8 \approx 6$ . *I. adunanti* affinis.

18. *Inocybe subæmula* Britz. Hym. Südbayer VIII, p. 8, f. 264. 339

*Hab.* in Bavaria australi. — Ochracea, centro brunnea; sporæ  $10 \approx 6$ . *I. æmulæ* affinis.

19. *Inocybe nitidiuscula* Britz. Hym. Südbayer VIII, p. 7, f. 316. 340

*Hab.* in silvaticis Baviaræ australis. — Atro-rufa; sporæ  $8-10 \approx 5-6$ . *I. delectæ* et *I. lucifugæ* affinis.

20. *Inocybe servata* Britz. Hym. Südbayer VIII, p. 7, f. 37, 152, 255 a. 341

*Hab.* in Bavaria australi. — Cremea, umbone acuto fulvo; sporæ  $10-16 \approx 7-5$ .

21. *Inocybe albido-lamellata* Britz. Hym. Südbayer VIII, p. 7, f. 275. 342

*Hab.* in Bavaria australi. — Castaneo-brunnea; sporæ  $9 \approx 6$ .

22. *Inocybe castaneo-lamellata* Britz. Hym. Südbayer VIII, p. 7, fig. 267, 268. 343

*Hab.* in Bavaria australi. — Castaneo-brunnea; sp.  $7,5-9 \approx 5-6$ .

23. *Inocybe subignobilis* Britz. Hym. Südb. VIII, p. 7, fig. 265. 344

*Hab.* in silvaticis Baviaræ australis. — Griseo-brunnea; sporæ  $12-14 \approx 6-8$ .

24. *Inocybe flavido-lilacina* Britz. Hym. Südb. VIII, p. 7, f. 40. 345



*Hab.* in silvaticis Baviariæ australis. — Flavido-lilacina; sporæ 10  $\approx$  4-5. *I. sindoniæ* affinis.

25. *Inocybe inscripta* Britz. Hym. Südb. VI, p. 20, fig. 214 (*Agaric.* 346 *cus*) et VIII, f. 319.

*Hab.* in silvaticis Baviariæ australis. — Flavo-albida; sp. 10  $\approx$  6.

26. *Inocybe oblectabilis* Britz. Hym. Südb. VI, p. 23, fig. 176. 347

*Hab.* in silvaticis Baviariæ australis. — Flavo-aurea; sp. 10  $\approx$  6.

27. *Inocybe heterogenea* Britz. Hym. Südbayer VI, p. 19, fig. 182 348 (*Agaricus*).

*Hab.* in silvaticis Baviariæ australis. — Flavo-brunnea; sp. 10  $\approx$  4.

28. *Inocybe observabilis* Britz. Hym. Südb. VI, p. 19, fig. 181 (*Agar.*) 349

*Hab.* in paludosis Baviariæ australis. — Rubro-brunnea; sporæ 10  $\approx$  4.

29. *Inocybe explanata* Britz. Hym. Südb. VI, p. 19, fig. 215-216 350 (*Agaricus*).

*Hab.* in silvis montanis Baviariæ australis. — Tota albida dein rubescens; sporæ 6-8  $\approx$  4.

30. *Inocybe ignobilis* Britz, Hym. Südb. VI, p. 23, fig. 183. 351

*Hab.* in paludosis Baviariæ australis. — Flavo-brunnea; sp. 8  $\approx$  4.

31. *Inocybe mutatoria* Britz. Hym. Südbayer IX, p. 9, f. 325. 352

*Hab.* in arenosis Baviariæ australis. — Ochraceo-flava; sporæ 10  $\approx$  4-5. *I. muticæ* affinis.

32. *Inocybe albidula* Britz. Hym. Südbayer IX, p. 9, f. 164, 329. 353

*Hab.* in Bavaria australi. — Sp. 10-14  $\approx$  6.

33. *Inocybe tenui-marginata* Britz. Hym. Südbayer X, p. 165, f. 161, 354 384 (*Clypeus*).

*Hab.* in silvaticis Baviariæ australis. — Aureo-brunnea; sporæ 10-14  $\approx$  6.

34. *Inocybe pseudomixtilis* Britz. Hym. Südbayer X, p. 165, f. 395, 355 396 (*Clypeus*).

*Hab.* in silvaticis Baviariæ australis. — Ochraceo-flava, centro flavo-brunneo; sporæ 10-12  $\approx$  7-8,

35. *Inocybe subornata* Britz. Hym. Südbayer IX, pag. 10, fig. 368 356 (*Clypeus*).

*Hab.* in silvis fagineis Baviariæ australis. — Flavo-brunnea; sporæ 10  $\approx$  6. *I. lanuginosæ* affinis.

**HEBELOMA** Fr. — Syll. V, p. 791, IX, p. 102.

1. *Hebeloma griseum* Cooke et Massee Grev. XXI, p. 36. — Sim- 357  
plex v. gregarium; pileo carnoso, convexo, dein applanato, murino

v. pallide griseo-argenteo, glutinoso, levi, sicco micanti; stipite æquali v. primo basi incrassato, demum attenuato, solido, albido, apice subfarinoso; velo arachnoideo, albido, fugaci; lamellis adnatis, dente decurrenti, latiusculis, ferrugineis; sporis 7-8  $\approx$  3, læte brunneis.

*Hab.* ad terram in silvis, Victoria Australiæ (MARTIN). — Pileus 6-8 cm. diam.; stipes 3  $\approx$  1-1,5 cm.; maleolens.

2. *Hebeloma fusipes* Bres. Bull. Soc. bot. it. 1892, p. 196. — Pileo 358  
carnoso, convexo-gibboso margine late infracto, viscido, albido-alutaceo, glabro; stipite pallido basi fusiformi-radicato, fibrilloso glabrescenti e farcto subcavo; lamellis latis subdistantibus, postice sinuato adnatis, cinnamomeis acie albido fimbriata; sporis subamygdaliformibus v. obverse obovatis, 12-15  $\approx$  9-10, luteis; basidiis clavatis 30-50  $\approx$  9-10.

*Hab.* ad terram Vallombrosa, Toscana (U. MARTELLI). — Pileus sæpe rubro-maculatus, 2-4 cm. latus; stipes 6-8 cm. long., 4-6 mm. crass.; caro luride albida, ad basin stipitis fuscidula, odore subspirituoso dulci, sapore miti. *Hebelomati clavicipiti* affine.

3. *Hebeloma prænitum* Britz. Hym. Südbayer IX, p. 11, f. 373. 359

*Hab.* in silvaticis Baviaræ australis. — Album, medio flavicans; sporæ 6-8  $\approx$  3-4. *H. clavicipiti* affine.

4. *Hebeloma exalbidum* Britz. Hym. Südbayer IX, p. 11, f. 51, 375. 360

*Hab.* in silvaticis Baviaræ australis. — Aquose ochroleucum; sporæ 10-11  $\approx$  5-7. *H. clavicipiti* affine.

5. *Hebeloma lævatum* Britz. Hym. Südbayer IX, p. 11, f. 382. 361

*Hab.* ad sepes Baviaræ australis. — Ex albido ochraceum; sporæ 9-10  $\approx$  5. *H. diffracto* affine.

6. *Hebeloma tumidulum* Britz. Hym. Südbayer IX, p. 11, f. 339. 362

*Hab.* in Bavaria australi. — Totum flavicans; sporæ 8-10  $\approx$  4-5.

7. *Hebeloma subscambum* Britz. Hym. Südbayer VIII, p. 8, f. 273. 363

*Hab.* ad caudices emortuos Baviaræ australis. — Albicans; sporæ 8-10  $\approx$  4-5.

8. *Hebeloma odoratissimum* Britz. Hym. Südbayer VIII, p. 8, f. 382. 364

*Hab.* in umbrosis graminosis Baviaræ australis. — E flavo rubro-brunneum; sporæ 15  $\approx$  7-8.

9. *Hebeloma angustifolium* Britz. Hym. Südbayer X, p. 166, f. 406. 365

*Hab.* in silvaticis Baviaræ australis. — E flavido carneum subisbellinum; sporæ 8-10  $\approx$  4-5. *H. crustuliniformi* affine.

**FLAMMULA** Fr. — Syll. V, p. 809, p. IX, p. 108.

1. **Flammula Aldridgei** Massee in Grev. XX, p. 25. — Pileo convexo, 366  
dein infundibuliformi, margine subinvoluti, sicco, velutino, testaceo,  
subaurantio; stipite gracili, æquali, flexuoso, cavo, levi, concolori,  
mycelio albo, floccoso insidenti; lamellis valde decurrentibus, sub-  
confertis, lanceolatis, aureis, dein ferrugineis; sporis basi subapi-  
culatis, 16  $\approx$  5.

*Hab.* ad terram, Petersfield Britanniae. — Pileus 3,5-5 cm.  
diam.; stipes 10 cm. long., 6-8 mm. cr. *Fl. gymnopodiae* affinis.

2. **Flammula veluticeps** Cooke et Mass. in Grev. XIX, p. 89. — Pi- 367  
leo convexo, dein applanato, centro depresso, dense breviterque ve-  
lutino, badio, margine involuto; stipite supra in pileum expanso,  
farcto, breviusculo, levi, pileo concolori; lamellis remotiusculis,  
postice attenuatis et profunde decurrentibus, aurantio-brunneis,  
dein umbrinis; sporis aurantio-brunneis, basi minute apiculatis,  
12  $\approx$  5.

*Hab.* in herbosis collinis ad Omeo in Victoria Australiæ (F. v.  
MUELLER). — Pileus 3-4 cm. lat.; stipes 3 cm. long., 5 mm. cr.

3. **Flammula penetrans** Fr. — Syll. V, p. 823. — Var. **madaga-** 368  
**scariensis** P. Henn. F. Afr. II, p. 35. — Pileo carnosio, convexo  
plano, sicco, depresso squamuloso, fulvo; stipite excentrico, subcavo,  
fibrilloso, striato; lamellis adnatis, latis, ventricosi, confertis, ochra-  
ceis; sporis brunneis, 5-6  $\approx$  4.

*Hab.* ad lignum pr. Ankoraka in insula Madagascar. — Pileus  
usque ad 5 cm. diam.; stipes usque ad 2 cm. long.

4. **Flammula Groesius** (B. et C.) — Syll. V, p. 812. — Var. **como-** 369  
**rensis** P. Henn. Fungi Afr. p. 354. — Pileo carnosio explanato,  
aureo, squamis confertis, obscurioribus, squarrosis ornato, margine  
irregulariter inciso undulatoque; stipite brevi; lamellis adnatis vix  
decurrentibus, postice sinuatis v. emarginatis, latis, cinnamomeo-  
ochraceis; sporis ellipsoideis v. ovoideis, ochraceo fuscis, 5-8  $\approx$  4-5.

*Hab.* ad stipites Palmarum emortuos, in insula Johanna Africae  
(J. M. HILDEBRANDT). — Pileus 10 cm. diam.; stipes 3 cm. long.,  
15 mm. cr.

5. **Flammula squalida** Peck 44 Rep. p. 19. — Pileo carnosio, convexo 370  
v. plano, firmo, viscoso, glabro, flavido v. rufescenti; contextu al-  
bido, pilei colore sub pellicula separabili simili; lamellis latiusculis,  
adnatis, pallidis dein brunneo-ferrugineis; stipite gracili, sæpius  
flexuoso, cavo, fibrilloso, subcartilagineo, pallido v. brunneo, primo  
apice dilute flavo; sporis brunneo-ferrugineis, 7,5-4.

*Hab.* in paludosis et nemorosis, Carrolton et Sandlake Amer. bor.

— *F. spumosæ* valde affinis et forsân ejus varietas.

6. *Flammula hispida* Massee Journ. of Bot. 1892, pag. 161, t. 323, 371  
f. 31-33. — Pileo carnosò, umbilicato, quandoque infundibuliformi,  
demum explanato, sicco, levi, ochraceo-fulvo, squamulis erectis, acu-  
tis, hispido; stipite cavo sursum attenuato, fibrilloso, pallido; la-  
mellis adnatis, subdecurrentibus, confertis, latis, ex aureo fulvo-  
ferrugineis, acie pallidiore crenulata; sporis ellipsoideis, basi api-  
culatis, ferrugineis, 7 ≈ 5.

*Hab.* ad truncos putridos, Chateau Belair Indiæ occid. — Pi-  
leus circ. 2,5 cm. diam.; stipes 1,5-2,5 long. *F. sapineæ* affinis.

7. *Flammula javanica* Henn. Fung. novoguin. II. p. 35. — Pileo car- 372  
noso, campanulato-explanato, umbonato, sicco, squamis depressis  
imbricatis dense tecto, dein sæpe subnudo, aureo-fulvo, usque ad  
5 cm. diam.; stipite fæcto, levi, glabro, basi subbulboso, flavo-brun-  
neo, usque ad 4 cm. long., 4-8 µ. cr., lamellis adnatis, latis, ochra-  
ceis; sporis ellipsoideis v. oblique ovoideis 1-2-guttulatis, flavo-  
ochraceis 7-9 ≈ 4-5.

*Hab.* in insula Javæ. — *Fl. sapineæ* verosimiliter affinis.

8. *Flammula immutabilis* Britz. Hym. Südbayer IX, p. 11. f. 344. 373

*Hab.* ad caudices vetustos Baviariæ australis. — Pallide flavo-  
rubra; sporæ 6-8 ≈ 4. *F. azymæ* affinis.

9. *Flammula ferruginascens* Britz. Hym. Südbayer IX, p. 11, f. 135. 374

*Hab.* in silvaticis Baviariæ australis. — Albido-flava, centro  
brunnea; sporæ 6 ≈ 2-3. *F. scambæ* affinis.

# NAUCORIA Fr. — Syll. V, p. 828. IX, p. 109.

1. *Naucoria pediades* Fr. — Syll. V, 844. — Var. *obscuripes* Fayod 375  
in Verh. bot. Ver. Brand. 1890, p. 226. — Major; pileo 14 cm.  
lat.; stipite obscuro, 6 cm. alt., 4-6 mm. cr.; hymenophoro distin-  
ctissimo; sporis regulariter ellipsoideis, 12 ≈ 6,5.

*Hab.* gregatim in graminosis aridis prope Olukonda Africæ.

2. *Naucoria typhicola* P. Henn. Ueber abnorme Pilzentwicklung, p. XL. 376  
— Pileo subcarnoso, tenui, fragili, campanulato-explanato, subum-  
bonato e flocculoso levi, margine radiato-striato, hygrophano, fu-  
scescenti; stipite cavo, gracili, tenui, e farinoso-squamuloso levi, al-  
bido, subciliato, basi bulboso albido-tomentoso; lamellis inæquali-  
bus subdistantibus, ventricosis, e carneo fulvescentibus; sporis  
fulvo-rubiginosis, 8-11 ≈ 5-7; basidiis clavatis, 30 ≈ 17.

*Hab.* in vaginis emortuis foliorum *Typhæ angustifoliæ* in Ger-

mania. — Pileus 0,5-1,5 cm. diam.; stipes 1-2,5 cm. long., 1-2 mm. cr.

3. *Naucoria solstitialis* Karst. Symb. Myc. Fenn. XXXII, p. 6. — Pi- 377  
leo submembranaceo, campanulato-convexo dein explanato-depresso, umbonato, fragili, glabro, margine striato dein lacero e melleo-pallenti ferrugineo-cinnamomeo, sicco ferrugineo; stipite fistuloso, æquali stricto, firmulo, e pallescenti umbrino-prasino; lamellis adnexis, secedentibus, ventricosis, integerrimis, cinnamomeis; sporis 9-10  $\approx$  5-6.

*Hab.* ad terram Mustiala Fennicæ. — Pileus 3 cm. diam.; stipes 3-5 cm. long., 2-4 cm. cr. *N. cerodi* affinis.

4. *Naucoria Büttneri* P. Henn. F. Afr. II, p. 34. — Pileo campanu- 378  
lato, explanato, centro carnosiusculo, fusco, ferrugineo-tomentoso, radiato-striato; stipite cavo, levi, vix striato, tenui, concolori; lamellis sinuato-affixis, latis, confertis, cinnamomeis, sinuosis; sporis ellipsoideis sæpe fere curvatis guttulatis, fuscis, 8-9  $\approx$  4-8.

*Hab.* ad ramulos emortuos, Togo Africæ centr. — Pileus 0,5-1 cm. diam.; stipes 0,5-1 cm. long. 1-1,5 mm. cr. *N. erinaceæ* affinis.

5. *Naucoria Jennyæ* Karst. Hedw. 1892, p. 219. — Pileo carnosulo 379  
e conico expanso, subumbonato, acuto, levissimo, glabro, sicco, badio-aurantiaco, non hygrophano, margine primitus infracto; stipite cartilagineo, intus fibroso, tenaci, inferne fusiformi attenuato, apice incrassato, subrubiginoso-badio, intus dein pallidiore; lamellis adnato-secedentibus, confertis, ochraceis v. fulvo-cinnamomeis, sæpe brunneo-maculatis; sporis ochraceis 4-5  $\approx$  3-4; basidiis cylindraceo-clavatis, 25-30  $\approx$  6.

*Hab.* in pineto loco declivi ad terram arenosam, Mustiala Fennicæ. — Pileus 1-2 cm. diam., 1-2 cm. long. 4 mm. cr. *Naucoriæ cidari* proxima.

6. *Naucoria glebarum* Berk Fl. Antarct. II, p. 447, pl. 162, f. 3. — 380  
Pileo carnosulo, late umbonato, glabro, pallide fusco; stipite brevi, glabro, sursum subincrassato, solido, basi mycelio floccoso affixo; lamellis latiusculis, adnatis, horizontalibus, fulvis.

*Hab.* inter cæspites ad Berkeley sound in insulis Falkland. — Pileus 18 mm. diam.; stipes 18 mm. long., 3 mm. cr. Affinis *N. cerodi*.

7. *Naucoria exquisita* Berk. Fl. Antarct. II, p. 447. — Minima te- 381  
nerrima; pileo ferrugineo, subtiliter pulverulento; stipite brevi, filiformi, sursum incrassato, pulverulento, pileo concolori, basi dilatata irregulariter floccoso-membranacea; lamellis sex, ventricosis, subliberis, albo-marginatis, interstitiis levibus, ferrugineis.



*Hab.* ad caules Chilitrichi in insulis Falkland. — Pileus 2 mm. lat.

8. *Naucoria nimbifera* Britz. Hym. Südbayer VIII, p. 8, f. 290. 382

*Hab.* ad caudices Bavarie australis. — Rufo-flavicans; sporæ 10-12  $\approx$  5-6.

9. *Naucoria specialis* Britz. Hym. Südbayer VI, p. 21, fig. 206 (*Agar.*) 383

*Hab.* in silvis montanis Bavarie australis. — Flavo-rubra; sporæ 8  $\approx$  5.

10. *Naucoria uncialis* Britz. Hym. Südb. VI, p. 21, fig. 231 (*Agar.*) 384

*Hab.* ad muscos in truncis Bavarie australis. — Rubro-flava; sporæ 8  $\approx$  4.

11. *Naucoria hettematica* Britz. Hym. Südbayer VI, p. 19, f. 177 385 (*Agar.*)

*Hab.* in silvis montanis Bavarie australis. — Ex albido rubro-brunnea; sporæ 10  $\approx$  4-6.

12. *Naucoria disclosa* Britz. Hym. Südbayer VI, p. 19, f. 227 (*Agaricus*). 386

*Hab.* in silvis Bavarie australis. — Flavo-rubra; sporæ 6-8  $\approx$  4.

13. *Naucoria improspicua* Britz. Hym. Südbayer X, p. 166, f. 407. 387

*Hab.* in silvaticis Bavarie australis. — Sordide flavo-rubra, centro brunnea; sporæ 6  $\approx$  3. *N. lugubri* affinis.

14. *Naucoria confertifolia* Britz. Hym. Südbayer X, p. 166, f. 418. 388

*Hab.* ad basim truncorum Bavarie australis. — Sordide rubro-flava; sporæ 8  $\approx$  4. *N. nuceæ* et *N. glandiformi* etc. affinis.

15. *Naucoria breviata* Britz. Hym. Südbayer X, p. 166, f. 412. 389

*Hab.* ad margines silvarum Bavarie australis. — Rubro-brunnea v. flavo-brunnea; sporæ 6  $\approx$  4. *N. tabacinæ* affinis.

16. *Naucoria inattenuata* Britz. Hym. Südbayer IX, p. 11, f. 341. 390

*Hab.* ad caudices Bavarie australis. — Tota carnea; sporæ 6-7  $\approx$  4. *N. festivæ* affinis.

17. *Naucoria subtemulenta* Britz. Hym. Südbayer IX, p. 12, f. 35. 391

*Hab.* ad sepes et in silvis Bavarie australis. — Tota flavo-rubra centro obscurior; sporæ 8-9  $\approx$  4-5. *N. temulentæ* affinis.

18. *Naucoria stagnicola* Britz. Hym. Südbayer IX, pag. 12, f. 111, 392 348, 353.

*Hab.* ad stagna Bavarie australis. — Flavo-rubra; sporæ 12-16  $\approx$  6-8. *N. paludosæ* affinis.

19. *Naucoria inserenda* Britz. Hym. Südbayer VI, p. 22, f. 238 (*Agar.*) 393

*Hab.* in silvaticis Bavarie australis. — Tota rubro-flava; sporæ 10-11  $\approx$  6.



20. *Naucoria invenusta* Britz. Hym. Südbayer VI, p. 21, f. 203 (*Agar.*). 394  
*Hab.* in silvis Baviaræ australis. — Rubro-flava; sporæ 10  $\approx$  6.

**PLUTEOLUS** Syll. V, p. 859.

1. *Pluteolus coprophilus* Peck 46 Rep. p. 59. — Pileo tenui, sub- 395  
 membranaceo, fragili, conico v. campanulato, dein subplano, hu-  
 mecto viscidulo, margine demum striato, roseo-griseo; lamellis an-  
 gustis, confertis, liberis, pallide cinnamomeis; stipite longo, recto,  
 subflexuoso, cavo, albo, interdum albo-roseo; sporis atro-ferrugi-  
 neis, 12-15  $\approx$  7-8.

*Hab.* ad fimum, Amer. bor. — Cæspitosus; pileus 2,5-4 cm.  
 lat.; stipes 6-7 cm. long., 2-4 mm. cr. *Galera lateritiæ* similis.

2. *Pluteolus amazonicus* Berk. in Herb., Cooke in litt. — Pileo cam- 396  
 panulato-expanso, tenui, fulvo, subviscido, radiato-striato, 2-3 cm.  
 lat.; stipite gracili, æquali 5-6 cm. long., 2 mm. crass., striatulo;  
 lamellis subconfertis, liberis; sporis ferrugineis, 8  $\approx$  6, vel subglobosis.

*Hab.* in Panure, Amazon (SPRUCE).

3. *Pluteolus Lealanus* Berk. in Herb., Cooke in litt. — Pileo hemi- 397  
 sphærico applanato; 3-4 cm. diam., opaco, fulgineo, viscido vel sub-  
 mucido; stipite adscendenti, æquali, pallido, fibrilloso, 5-6 cm. long.,  
 3-4 mm. crass.; lamellis liberis, lanceolatis; sporis ellipsoideis, 10-  
 12  $\approx$  6, ferrugineis.

*Hab.* ad truncos, Ohio Amer. bor. (I. G. LEA).

**GALERA** Fr. — Syll. V, p. 860, IX, p. 113.

1. *Galera striatula* Clem. Bot. Surv. Nebr. Rep. III, 1893, 13. — 398  
 Pileo membranaceo, campanulato, convexo, argenteo-micaceo, brun-  
 neo, profunde striato, umbone levi; stipite elongato, æquali, albo  
 dein rufescenti, glabro; lamellis liberis, collariatis, angustis, ochra-  
 ceo-rubiginosis, remotis; sporis ellipsoideis 12-15  $\approx$  7-8.

*Hab.* in humidis, Lincoln Amer. bor. — Pileos 1,5-2 cm. long.;  
 stipes 9-10 cm. long., 2 mm. cr.

2. *Galera morchelloides* De Brond. Act. Soc. Linn. Bord. 1851, p. 299, 399  
 t. V e VI. — Pileo conoideo-obtusio subgibboso, plicis membrana-  
 ceis irregulariter sinuosis, anastomosantibus obducto, margine sub-  
 lævi repando, ochraceo-fuscescenti; stipite æquali, cylindrico, sub-  
 fistuloso, squamuloso, rufescenti fusco; lamellis numerosis, sublibe-  
 ris, inæqualibus, albido-fuscescentibus.

*Hab.* ad terram sabulosam in quercetis Galliæ.

3. *Galera hypnicola* Karst. Symb. Myc. Fenn. XXXII, p. 7. — Pi. 400

leo membranaceo, conico campanulato, obtuso, disco gibbo excepto, profunde lineato-striato, fusciscenti-livido, mox livido pallescenti, disco melleo pallenti, glabro, nudo; stipite æquali, laxo, flaccido, apice pruinoseo, hinc inde e velo sericello-flocculoso, mox glabro, hyalino pallido, dein pallido; lamellis in coni fundo adnatis, liberis adscendentibus, confertis, ventricosis, dilute cinnamomeis; sporis ellipsoideo-ovoideis, flavidis, 10-12  $\approx$  7.

*Hab.* ad Hypna semiemortua silvaticis uliginosis, Mustiala Fennicæ. — Pileus 1,5 cm. lat.; stipes 11 cm. alt., 2 mm. cr. *G. sphagnorum* proxime.

4. *Galera flava* Peck 45 Rep p. 79. — Pileo tenui, ovato v. campanulato, obtuso, medio subplicato-striato, flavescenti; lamellis tenuibus, angustis, confertis, adnatis, primum albidis dein flavido-cinnamomeis; stipite æquali v. apice subattenuato, cavo, maculis farinaceis albidis consperso, apice substriato, albo v. pallide flavido; sporis brunneo-ferrugineis, 12  $\approx$  7,5.

*Hab.* in humosis silvaticis, Amer. bor. — Pileus 12-24 mm. lat.; stipes 5-7 cm. long., 2-4 mm. cr.

5. *Galera griseo-isabellina* Britz. Hym. Südbayer X, p. 167, f. 408. 402

*Hab.* ad margines silvarum Bavaricæ australis. — Tota isabellino-grisea; sporæ 10-12  $\approx$  6-8. *G. ravidæ* affinis.

6. *Galera aquigena* Britz. Hym. Südbayer VIII, p. 8, f. 294. 403

*Hab.* in aquis Bavaricæ australis. — Tota flavo-rubra; sporæ 10-11  $\approx$  6. *G. aquatili* affinis.

# TUBARIA W. Sm. — Syll. V, p. 872, IX, p. 114.

1. *Tubaria Embolus* (Fr.) Sacc. Syll. V, p. 874. — Var. *madagascariensis* P. Henn. F. Afr. II, p. 34. — Pileo tenui membranaceo, 404

e campanulato convexulo, medio depresso umbilicato subinfundibuliformi, radiatim striato-sulcato, levi, fulvo; stipite fistuloso, striato vix compresso, levi, luteo-fulvo; lamellis postice latissimis, triangularibus, distantissimis, ochraceis; sporis ellipsoideis, ochraceis, 8-10  $\approx$  4-6.

*Hab.* ad terram pr. Ankoraka in insula Madagascar. — Pileus usque ad 2 cm. diam.; stipes 2 cm. long., 3 mm. cr. — Habitus *Omphalicæ umbelliferæ*.

2. *Tubaria djurensis* P. Henn. Fungi Afr. p. 354. — Pileo submembranaceo campanulato-semiglobato, sæpe obtuse umbonato, radiatim 405

striato, levi, cinnamomeo; lamellis adnato-decurrentibus, postice latissimis triangularibus, distantissimis, cinnamomeo-ochraceis, acie

subcrenulata pallida; stipite fistuloso tenui, flavo, levi, sursum pallidiore, æquali; sporis ellipsoideis v. ovoideo-ellipsoideis, læte subfuscis, levibus, 15-17  $\approx$  7-10.

*Hab.* ad terram, Dschur Africæ (G. SCHWEINFURTH). — Pileus 1 cm. diam.; stipes 1,5-2,5 cm. long., 1-2 mm. cr. *T. furfuraceæ* affinis.

3. *Tubaria strigipes* C. et Massee Grev. XXI, p. 36. — Cæspitosa; 406  
pileo hemisphærico, umbonato, fulvo, levi, rugoso, margine incurvo; stipite gracili, flexuoso, cavo, pileo concolori, prope apicem squaroso, squamis conicis, patulis, obsito; lamellis late adnatis v. dente decurrentibus, confertiusculis, tenuibus, acie pallidiore, cinnamomea; sporis fulvis, guttatis, 6-7  $\approx$  4.

*Hab.* in graminosis, Port Phillip Australiæ (I. MINCHIN). — Pileus 1-2 cm. diam.; stipes 3 cm. long., 1-2 mm. cr.

4. *Tubaria canescens* Peck 46, Rep. p. 24. — Pileo tenuissimo, sub- 407  
membranaceo, convexo, griseo-albo v. canescenti, fibrilloso v. tomentoso; lamellis distantibus, decurrentibus, cinnamomeis; stipite gracili, albido, fibrilloso, basi mycelio albo cincto; sporis ellipsoideis 6  $\approx$  4.

*Hab.* ad terram humidam in silvis, Amer. bor. — Pileus 4-6 mm. lat.; stipes 12-16 mm. long., *T. autochthonæ* affinis.

**CREPIDOTUS** Fr. — Syll. V, p. 876, IX, p. 115. — Ad hoc genus, teste Cooke in litt., spectat *Pleurotus Testudo* (Berk.) Sacc. V, n. 1512, ob sporas ochraceo-fuscas.

1. *Crepidotus stiriacus* Wettst. Bot. Zeitschr. 1885, p. 198. — Pileo 408  
carnoso-fibroso, ex ovato-conchato semiorbiculari v. cuneiformi, simplici v. plus minusve lobato v. palmatim diviso tomentoso; stipite laterali brevissimo contracto; lamellis ochraceo-fuscis, densis, tenuibus, æqualibus vel vetustate inæquilongis, basin versus confluentibus; sporis ellipsoideis, levibus, hyalino-ochraceis, 5-7  $\approx$  3.

*Hab.* ad truncos putres in fodina plumbea Deutsch-Feistritz Stiriæ. — Pileus 3-6 cm. diam. *C. Alveolo* affinis.

2. *Crepidotus spathulatus* Bres. Contr. Fl. Afr. orient. p. 5, T. VIII, 409  
f. 4. — Pileo membranaceo, tenui, cuneiformi-spathulato, glabro, melleo, margine striato, basi cuneato-attenuata alboque tomentosa adnato; lamellis confertissimis, ex albo cinnamomeo-ferrugineis in punctum insertionis pilei attenuato-decurrentibus; sporis obovato-subellipticis, flavidis, 7-8  $\approx$  5-6.

*Hab.* in Africa orientali. — Pileus 7-19 mm. long., 5-10 mm. lat,

3. *Crepidotus bambusinus* Pat. Journ. de Bot. 1891, p. 309. — Pileo 410  
orbiculari v. reniformi, tenui, carnosio, initio stipitato, dein subsessili, superne albido, inferne cinnamomeo-fusco; lamellis excentricis, inæqualibus, numerosis, angustis; sporis levibus violaceo-brunneis, ovoideis apice poro germinativo instructis, 5-6  $\approx$  3-4.

*Hab.* ad culmos vetustos Bambusæ, Tonkin. — Pileus 6-15 mm. diam. Species ob sporas violaceo-brunneas poroque germinativa instructas a ceteris *Crepidotis* distincta.

4. *Crepidotus Ragazzianus* Bres. Contr. Fl. Afr. orient. p. 5, T. VIII, 411  
f. 5. — Pileo carnosulo, reniformi, rufo-luteolo, glabro, postice adnato; stipite brevissimo, albo-luteolo, deorsum attenuato, sublaterali, subtus tantum visibili; lamellis subdistantibus, ochraceo-cinnamomeis, ad stipitem rotundato-adnatis, acie serrulatis; sporis flavo-aureis, 8-10  $\approx$  6-7.

*Hab.* ad ligna putrida in silva Fekerie-Ghemb. Afr. orient. (RAGAZZI). — Pileus 13-15 mm. diam.

5. *Crepidotus distans* Peck 44, Rep. p. 20. — Pileo membranaceo, 412  
convexo, remote sulcato-striato, minute pubescenti, fulvo; lamellis latis, ventricosis, remotissimis, adnatis, pileo concoloribus; stipite minuto, excentrico, rubro-brunneo; sporis ellipsoideis, 10-12,5  $\approx$  6-7,5.

*Hab.* ad corticem Cratægi tomentosæ, Carrollton Amer. bor. — Pileus 4-8 mm. lat; stipes circ. 2 mm. long.

6. *Crepidotus applanatus* (Pers.) Sacc. Syll. V, p. 978. — Var. ma- 413  
dagascariensis P. Henn. F. Afr. II, p. 34. — Pileo carnosio, conchiv. reniformi, convexo, glabro et levi, subsessili, ochraceo, cinereo-pruinoso, postice albo-villoso, margine involuto, undulato-sinuoso; lamellis latis, subdistantibus, ad basin vix decurrentibus, inæqualibus, fuscescentibus; sporis luteo-fuscis, 5-7  $\approx$  4-5.

*Hab.* ad lignum prope Ankoraka in insula Madagascar. — Pileus usque ad 12 mm. diam.

7. *Crepidotus quitensis* Pat. Bull. Soc. Myc. 1893, p. 128. — Pileo 414  
tenui, membranaceo, sessili, resupinato dein reflexo, reniformi v. cupulato, primitus albo, postremo brunneo, margine fusco, integro v. lacerato, membrana alba, byssoidea cincto, glabro, levi; lamellis angustis, confertiusculis, e puncto centrali radiantibus, fusco-brunneis; sporis globosis, minutissime verrucosis, ex hyalino-brunneis 5-6  $\mu$ . diam.

*Hab.* in Æquatoria Amer. austr. — Pileus 4-6 mm. diam.

8. *Crepidotus albidus* Ell. et Ev. Proc. Acad. Phil. 1894, p. 323. — 415

Resupinato-sessilis, albicans, glaber, siccus margine incurvato; lamellis tenuibus latiusculis, pallidis, dein flavo-brunneis, e puncto laterali radiantibus; sporis flavido-brunneis inæqualiter ellipsoideis  $5 \approx 3.5$ .

*Hab.* ad corticem Tiliæ, Ann arbor. Mich. Amer. bor. (PETERS).

9. *Crepidotus sessilis* Britz. Hym. Südbayer X, p. 167, f. 419. 416

*Hab.* ad ramos putres Baviariæ australis. — Albus, nitidulus; sporæ  $6 \approx 3$ . *C. applanato* affinis.

10. *Crepidotus Berberis* Britz. Hym. Südbayer IX, p. 12, f. 381. 417

*Hab.* in truncis Berberidis et Alni Baviariæ australis. — Ochroleucus; sporæ  $8-12 \approx 4$ .

11. *Crepidotus subscalaris* Britz. Hym. Südbayer VIII, p. 8, f. 296. 418

*Hab.* ad ramos putres pineos Baviariæ australis. — Flavido-albicans; sporæ  $6 \approx 2-3$ .

## CORTINARIUS Fr. — Syll. V, p. 889, IX, p. 117.

### I. Phlegmactum

1. *Cortinarius albidus* Peck 44 Rep. p. 20, t. III, f. 1-4. — Pileo 419  
carnoso, convexo v. subplano, viscido, albo, subinde leniter flavo-  
tincto; contextu albo; lamellis confertis, emarginatis, primo albidis,  
dein cinnamomeis; stipite æquali, solido, albo, basi bulbo depresso,  
obliquo, submarginato prædito; velo albo; sporis subellipsoideis,  
 $10-11.5 \approx 6$ .

*Hab.* in silvis, Carrollton Amer. bor. — Pileus 5-10 cm. lat.;  
stipes 5-10 cm. long., 8-16 mm. cr. *C. multiformi* affinis.

2. *Cortinarius pertinens* Britz. Hym. Südbayer X, p. 169, f. 322. 420

*Hab.* in silvis Baviariæ australis. — Vitellinus; sporæ  $8-9 \approx 3-4$ .  
*C. claricolori* affinis.

3. *Cortinarius largiusculus* Britz. Hym. Südbayer Cortin. p. 4 fig. 155 421  
(*nemorensis*).

*Hab.* in silvaticis Baviariæ australis. — Centro flavidus, mar-  
gine cyaneo-violaceus; sporæ  $8-9 \approx 7-8$ .

4. *Cortinarius disputabilis* Britz. Cort. p. 5, fig. 148 (ser. IV) et 251. 422

*Hab.* in silvaticis Baviariæ australis. — Vitellinus; sporæ  $8-9 \approx$   
 $6-7$ , rugulosæ.

5. *Cortinarius percognitus* Britz. Cort. p. 5, fig. 252. 423

*Hab.* in silvaticis Baviariæ australis. — Totus ochraceus v. flavo-  
brunneus; sporæ  $14 \approx 8$ .



II. *Myxactium*

6. *Cortinarius erythræus* Berk. Hook. Journ. 1845, p. 48. — Parvus, 424  
sanguineus; pileo convexo, glabro; stipite brevi, viscoso; lamellis  
adnexis, ventricosus; mycelio flavo.

*Hab.* ad terram Australiæ occident. — Stipes 18 mm. alt., 2  
mm. cr.; pileus 2,5–4 cm. diam.

7. *Cortinarius Emodensis* Berk. Hook. Journ. (1852), p. 132. — Pileo 425  
convexo, latissime umbonato, carnosus, medio flocculoso, margine  
sulcato; stipite valido obeso, subæquali, levi, solido, annulo deflexo  
amplo; lamellis e violaceo umbrinis; sporis granulatis.

*Hab.* in pinetis ad Abietem Webbianam in India. — Pileus  
4 mm. diam.; stipes 15 cm. long., 2,5 cr.

8. *Cortinarius politulus* Britz. Cort. p. 7, fig. 257. 426

*Hab.* in silvaticis Baviariæ australis. — Violaceo-griseus v.  
cyaneo-griseus, centro flavidus; sporæ 8–6.

III. *Inoloma*

9. *Cortinarius præstans* Cord. Champ. France II, p. 98, t. XXI. — 427  
Pileo carnosus, convexo, orbiculari, sericeo-nitenti, violaceo-fusco;  
stipite intus fibroso, albedo, solido, cylindræo, interdum sinuoso,  
basi incrassato subbulboso, subsericeo; lamellis inæqualibus, nu-  
merosis, ex hyalino-einescentibus.

*Hab.* ad terram in silvis Galliæ. — Pileus 12–14 cm. lat.; sti-  
pes 12–14 cm. long. 2,5 cm. crass. Magnus, edulis.

10. *Cortinarius Brondæi* Qué. Rev. Myc. 1892, p. 64. — Pileo um- 428  
bonato, campanulato, pellucido, flavescenti; margine velato, ame-  
thystino; stipite flexuoso, plano, fistuloso, flavido.

*Hab.* ad terram humosam in silvis Galliæ. — *C. milvino* affinis.

11. *Cortinarius fusco-violaceus* Britz. Hym. Südbayer VI, pag. 29, 429  
fig. 189.

*Hab.* in silvis fagineis Baviariæ australis. — Totus violaceo-  
brunneus; sporæ 10–12–6.

12. *Cortinarius albedo-cyaneus* Britz. Hym. Südbayer VI. p. 29. f. 159, 430  
Cort. p. 8.

*Hab.* in silvis fagineis Baviariæ australis. — Pallide azureus;  
sporæ 10–12–6.

13. *Cortinarius collocandus* Britz. Cort. p. 8 fig. 190 (ser. VI). 431

*Hab.* in silvaticis Baviariæ australis. — Totus rubenti-violaceus;  
sporæ 8–9–6–7.



14. *Cortinarius opimatus* Britz. Cort. p. 8, fig. 259.

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*Hab.* in silvaticis Baviaræ australis. — Aureus v. melleus; sporæ 8 ≈ 6.

#### IV. Dermocybe

15. *Cortinarius Sintenisii* Bres. Pilze Portorico Sinten. p. 498. — 433

Pileo carnoso, tenui, convexo v. expanso, subumbonato, squamuloso, cinnamomeo; stipite farcto dein cavo, striato, subsquamoso, flavo-brunneo; lamellis adnatis, confertis, latis, sæpe venoso-connexis, subalveolatis; sporis subfuscis 7-8 ≈ 4-5.

*Hab.* ad truncos insulæ Porto-Rico Amer. centr. (P. SINTENIS). — Pileus 2-3 cm. diam.; stipes 1,5-2,5 cm. long. *C. cinnamomeo* affinis.

16. *Cortinarius infucatus* Fr. — Syll. V, 943. — Var. *croceipes* 434

Karst. Symb. Myc. Fenn. XXXII, p. 4. — Pileo e conico plano-convexo, sicco, glabro, lutescenti; stipite solido, basi spongioso, croceo; lamellis adnatis, confertis, arcuatis, linearibus, pallidioribus; sporis 7-8 ≈ 6-7.

*Hab.* inter muscos in abiegnis, Mustiala Fennicæ. — Pileus 7 cm. diam.; stipes usque ad 17 cm. long., 1-2 mm. cr.

17. *Cortinarius Walkeri* Cooke et Mass. in Grev., XXII, p. 36. — 435

Pileo convexo, dein expanso, margine persistenter incurvato, plus minusve undulato, subumbonato, levi, æquali, sicco, leviter sericeo, e pallido viridi, ætate cyanescenti; stipite basi subincrassato, sericeo-fibrilloso, rufescenti, farcto; lamellis adnexis, deorsum rotundatis, tenuibus, subconfertis, rufescentibus; sporis levibus, ferrugineis, 10 ≈ 5.

*Hab.* ad terram Blue Mountains Australiæ (Domina WALKER). 436

18. *Cortinarius flammeus* Berk. Hook Journ. 1852, p. 133. — Cæspitosus; 437

pileo e globoso subhemisphærico, subcarnoso, sanguineo, flocculoso; stipite deorsum incrassato, cavo, sanguineo-lateritio; lamellis adnatis, subdistantibus, aurantiis, variegatis; sporis subellipticis, 6  $\mu$ . long.

*Hab.* in pinetis, Sikkim Indiæ. — Pileus 3,5-4 cm. lat.; stipes 7,5 cm. long., 12 mm. cr.

19. *Cortinarius cinnamomeus* (L.) Fr. — Syll. V, p. 941. — Var. *fusipes* 437

Karst. in Hedw. 1891, p. 246. — Pileo carnoso e convexo umbonato, fulvo-cinnamomeo, glabrescenti; stipite solido, fusiformi, lutescenti; lamellis adnatis, facile secedentibus, fulvis; sporis subsphæroideis, 9-12 ≈ 8-9.

*Hab.* haud procul a Mustiala Fennicæ.

20. *Cortinarius electrinus* Britz. Hym. Südbayer X, p. 170, f. 329. 438  
*Hab.* in silvis pineis Baviaræ australis. — Succineus; sporæ 12-14  $\approx$  7.
21. *Cortinarius melleifolius* Britz. Cort. p. 10, fig. 273. 439  
*Hab.* in silvaticis Baviaræ australis. — Melleo-flavus; sporæ 6  $\mu$ . diam. *C. aureifolio* et *C. cinnamomeo* affinis.
22. *Cortinarius submyrtillinus* Britz. Cort. p. 10, fig. 265. 440  
*Hab.* in silvaticis Baviaræ australis. — Brunneus; sporæ 6  $\mu$ . diam. *C. myrtilino* affinis.

V. *Telamonia*

23. *Cortinarius disjungendus* Karst. Symb. Myc. Fenn. XXXII, p. 4. 441  
 — Pileo carnosus, convexo gibbo, levi, glabro, fulventi-umbrino, albo-striato, disco subumboniformi, cinnamomeo-fulvello, hygrophano, margine ex albo-fibrilloso argute infracto; stipite solido, æquali, basi incrassato et radianti, sordido, cuticula e fibrillis pal-lenti albidis, laxis contexta, intus sordide fulventi, curvato; lamellis primo adnatis, distantibus; sporis 10-17  $\approx$  6.  
*Hab.* in silvaticis pr. Mustiala Fennicæ. — *C. brunneo* affinis.
24. *Cortinarius fulvo-cinnamomeus* Britz. Hym. Südbayer VI, p. 29, fig. 203. 442  
*Hab.* in silvis fagineis Baviaræ australis. — Totus dilute lateritius; sporæ 10  $\approx$  6.
25. *Cortinarius fageti* Britz. Hym. Südbayer VI, p. 28, f. 226. 443  
*Hab.* in silvis fagineis Baviaræ australis. — Flavo-brunneus; sporæ 8-10  $\mu$ . diam.
26. *Cortinarius alutaceo-fulvus* Britz. Hym. Südbayer X, p. 171, f. 331. 444  
*Hab.* in uliginosis Baviaræ australis. — Isabellino-brunneus; sporæ 6-8  $\approx$  5-6. *C. brunneo-fulvo* affinis.
27. *Cortinarius præsignis* Britz. Hym. Südbayer X, p. 171, f. 332. 445  
*Hab.* in silvaticis inter Polytricha in Bavaria australi. — Rubro flavo-brunneus; sporæ 11-12  $\approx$  6. *C. macropodi* affinis.
28. *Cortinarius subcarnosus* Britz. Hym. Südbayer VI, p. 28, fig. 214. 446  
*Hab.* in silvis fagineis Baviaræ australis. — Violaceo-brunneus; sporæ 6  $\approx$  4.
29. *Cortinarius abiegnus* Britz. Hym. Südbayer VI, p. 28, fig. 175. 447  
*Hab.* in silvaticis Baviaræ australis. — Flavo-ruber, nitidulus; sporæ 6-8  $\mu$ . diam.
30. *Cortinarius inurbanus* Britz. Cort. p. 13, f. 103 (sub *hæmatochele* in Ser. IV), 448

*Hab.* in silvaticis Baviaræ australis. — Rubido-flavus; sporæ 10-12  $\approx$  6-7.

## VI. Hydrocybe

31. *Cortinarius olivascens* Karst. Symb. Myc. Fenn. XXXII, p. 6. — 449  
Pileo carnoso, tenui, margine submembranaceo, firmo, æquali convexo plano, levi, glabro, olivaceo; stipite firmo, subæquali, fibrilloso, striato, pallescenti, annulo membranaceo, fugaci; lamellis adnatis, latissimis, fulvo-ferrugineis; sporis 7-10  $\approx$  3-4.

*Hab.* in silva acerosa Fenniae. — Pileus 2 cm. diam.; stipes 4 cm. long., 4 mm. cr. Cum *C. veneto* comparandus.

32. *Cortinarius umbilicatus* Karst. Symb. Myc. Fenn. XXXII, p. 5. 450  
— Pileo carnoso, firmo, convexo-plano, umbilico minuto, undulato, obtuso, levi, glabro, cute siccitate diffracta, badio-spadiceo; stipite farcto, firmo, æquali, basi incrassato, striato, glabro, albido; lamellis adnatis non-secedentibus, confertis, postice perlatis, cinnamomeis; sporis 6-6,5  $\approx$  4-4,5.

*Hab.* in pinastreto pr. Mustiala Fenniae. — Pileus 4-5 cm. diam.; stipes 4 cm. long., 1 cm. cr.

33. *Cortinarius nitens* Karst. Symb. Myc. Fenn. XXXIII, p. 5. — 451  
Pileo subcarnoso, e convexo explanato, umbonato e velo albo-sericeo glabrato, nitido, fusco-badio; stipite æquali v. deorsum attenuato, fusco, velo fibrilloso, albo, in zonâ obliquas appressas collabenti; lamellis minus confertis, tenuibus, fulvo-cinnamomeis; sporis flavescentibus 6  $\approx$  3,5.

*Hab.* loco sylvatico pr. Mustiala Fenniae. — Pileus 8 cm. diam., stipes 12 cm. long., 8 mm. cr. *C. rubricoso* affinis.

34. *Cortinarius subcandelaris* Britz. Hym. Südbayer IX, p. 14, f. 317. 452  
*Hab.* in silvis Baviaræ australis. — Aurantiacus; sporæ 5-6  $\approx$  2,5-4.

35. *Cortinarius assumptus* Britz. Hym. Südbayer VI, p. 29, fig. 156. 453  
*Hab.* in silvis fagineis Baviaræ australis. — Violaceus, centro flavicans; sporæ 10  $\approx$  4.

36. *Cortinarius illepidus* Britz. Hym. Südbayer VI, p. 28, fig. 125, 454  
216 (*C. imbutus*).

*Hab.* in silvaticis Baviaræ australis. — Fusco-flavidus; sporæ 10  $\approx$  4-5.

## GOMPHIDIUS Fr. — Syll. V, p. 1137.

1. *Gomphidius litigiosus* Britz. Hym. Südbayer IX, p. 14, f. 13. 455

*Hab.* in silvis Baviaræ austr. — Sporæ 18-20  $\approx$  6-8, flavo-brunneæ. Affinis *G. roseo*.

#### Sect. 4. Melanosporæ

**AGARICUS** Linn. — Syll. V, p. 993, IX, p. 137.

1. **Agaricus zonarius** Brond. Crypt. Agen. IV, pl. 14, f. 1-3, Rev. 456  
Myc. 1892, p. 65 (*Pratella*). — Pileo convexo, zonis pellucidis brunneo-violaceis ornato; lamellis liberis, albido-roseolis dein ba-  
diis; stipite pleno elongato, annulato, membranaceo, albido.

*Hab.* in silvis Galliarum. — Pileus 1 cm. diam. *A. villaticus* et  
*angustus* affinis.

2. **Agaricus peronatus** Massee Fungus-flora I, p. 415. — Pileo he- 457  
misphærico dein expanso, pallide ochraceo, squamis parvis, brun-  
neis, sericeis, marginem versus majoribus dense oblecto; contextu  
albo, immutabili; lamellis a stipite remotissimis, confertis, roseis,  
dein pallide purpureo-brunneis, acie integris; stipite æquali, basi  
marginato-bulboso, distincte fistuloso, bulbo solido, inter annulum  
et marginem bulbi squamis sursum versis, magnis, latis oblecto;  
annulo magno, expanso; sporis oblique ellipsoideis, purpureo-brun-  
neis, levibus, 6  $\approx$  4.

*Hab.* in pinetis, Carlisle Britanniarum (CARLYLE). — Pileus 10-  
12,5 cm. diam.; stipes 12,5-15 cm. long., 2,5 cm. cr.; lamellæ 6  
mm. lat.

3. **Agaricus ammophilus** Ménier Nouv. Psall. p. 67, t. II, (*Psalliota*). 458  
— Pileo hemisphærico dein convexo-expanso, crasso, albido v. sti-  
pitem crasso, pleno, plus minutæ asi incrassato; annulo membra-  
naceo, apici stipitis valde adhærenti, striatulo, canaliculo circulare  
instructo; lamellis liberis, confertis, roseolis; sporis fusciscentibus,  
6-7,5  $\approx$  4-7.

*Hab.* ad terram arerosam, Loira infer. Galliarum. — *R. cantho-  
dermo* et *A. arvensi* affinis.

4. **Agaricus africanus** Fayod in Verhand. bot. Ver. Brand. 1890, p. 225. 459  
(*Psalliota*). — Pileo carnosulo, obsolete umbonato, ochraceo-pal-  
lido, squamulis rufis concentricis ornato, umbone badio; stipite  
farcto, submedullato, albido, basi incrassato; annulo submembrana-  
ceo, tenui, angusto, persistente; lamellis liberis, postice attenuatis  
confertis, fuscis; sporis fuscis, ovoideis.

*Hab.* ad terram arenosam pr. Olukonda Africæ. — Pileus 8  
cm. diam.; stipes 6 cm. long., 8 mm. cr.

5. *Agaricus ambüensis* Fayod in Verh. bot. Ver. Brand. 1890, p. 224 460  
(*Psalliota*). — Pileo tenuiter carnoso, e subgloboso carnoso-umbonulato, expanso, subspadiceo v. purpureo-fusco, sicco pallescenti; stipite bulboso, fibroso-carnoso, albicanti, basi incrassato, rufescenti, supra annulum submembranaceum levi; lamellis liberis, postice attenuatis, confertis, atropurpureis; sporis ellipticis.

*Hab.* ad terram arenosam, catervatim pr. Olukonda. — Pileus 3-6 cm. diam.; stipes 4-5 cm. long., 5-7 mm. cr. Affinis *Ag. rubello*.

6. *Agaricus subrufescens* Peck 46 Rep. p. 25. — Pileo subtenui, 461  
fragili, e profunde hemisphærico convexo v. late expanso, sæpe undulato v. irregulari, sericeo-fibrilloso v. subsquamuloso, ex albido v. griseo saturate rufo-brunneo; lamellis confertis, liberis, ex albido flavescentibus roseolis, demum atro-brunneis; stipite sub annulo, subflocculoso cavo, albido, basi subincrassato v. subbulboso; annulo membranaceo, albo, extus flocculoso; sporis brunneis 6-7  $\approx$  4-5.

*Hab.* in America bor. — Pileus 5-10 cm. lat.; stipes 6-12 cm long., 8-16 mm. cr. *A. campestri* affinis.

7. *Agaricus segregatus* Britz. Hym. Südbayer VI, p. 24, f. 141. 462

*Hab.* in silvaticis montanis Baviaræ australis. — Flavo-brunneus; sporæ 6  $\approx$  2-3.

**STROPHARIA** Fr. — Syll. V, p. 1012, IX, p. 138.

1. *Stropharia ventricosa* Massee Fungus-flora I, p. 400. — Pileo cam- 463  
panulato dein subplano, late gibbo, æquali, levi, udo tempore subviscido, ochraceo, sicco pallidiore; contextu centro crasso, margine tenui, pallide ochraceo; lamellis leniter adnexis, subliberis, ventricosis, confertiusculis, tenuibus, griseo-lilacinis dein purpureo-brunneis, margine pallido; stipite infra dimidium ventricosum, in basim radicantem longe attenuato, pallide flavo, deorsum minute squamuloso, cavo, intus brunneo; annulo magno, persistenti, prope stipitis apicem inserto, albo, pendulo, margine striato; sporis ellipsoideis, purpureo-brunneis, 10  $\approx$  6.

*Hab.* ad terram in Britannia. — Fungus 3-6-gregarius; pileus circ. 2,5 cm. diam.; stipes 6,5-7,5 cm. long., 8-10 mm. in parte inflata cr.; lamellæ 5-6,5 mm. cr.

2. *Stropharia Stuhlmanni* P. Henn. F. Afr. II, p. 33. — Pileo carnoso, 464  
tenui, hemisphærico explanato, ochraceo-fulvo, primo squamis floccosis erectis, imbricatis tecto dein nudo, levi, glabro, aurantiaco; stipite brevi, squamoso-floccoso, ochraceo, basi incrassato; annulo



floccoso squamoso; lamellis adnatis, latis, confertis, cinereo-brunneis, nigricantibus; sporis curvulis apiculatis, fusco-brunneis 5-6  $\approx$  3-4.

*Hab.* in regione rupestri, Butumbi Africæ centr. — Pileus usque ad 2 cm. diam.; stipes usque ad 2 cm. long., 3 mm. cr.

3. *Stropharia submerdaria* Britz. Hym. Südbayer VIII, p. 9, f. 13. 465

*Hab.* ad terram Baviaræ australis. — A *S. merdaria* sporis majoribus, hoc est 12-14  $\approx$  6-8, differt.

**HYPHOLOMA** Fr. — Syll. V, p. 1027, IX, p. 139.

1. *Hypholoma albo-sulphureum* Pat. Journ. de Bot. 1891, p. 309. — 466

Pileo convexo plano, modice carnoso, regulari, e pruinoso glabro, centro flavo-rubescenti, ambitu violascenti; lamellis numerosis, inæqualibus, rubescentibus dein nigrescentibus; stipite e lanoso glabro, tereti, basi bulbiformi incrassato, ex albido flavido; annulo membranaceo, adscendenti, extus albo, intus violaceo-nigro, 6-8 mm. lat.; sporis rubro-nigrescentibus, poro germinativo instructis, 12-14  $\approx$  8-10.

*Hab.* ad terram, Tonkino. — Pileus 8-10 cm. diam.; stipes 10-15 cm. alt., 8-12 mm. cr. *H. appendiculato* affine.

2. *Hypholoma discretum* C. et Masee Grey. XXII, p. 37. — Grega- 467

rium; pileo campanulato dein convexo, umbonato, levi, fulvo; stipite gracili, æquali vix striatulo, pileo pallidiore, basi subfloccoso; lamellis liberis v. leniter adnatis, latiusculis, griseo-viridulis dein olivascentibus demum purpureo-brunneis, acie albida; sporis purpureo-brunneis, 12  $\approx$  7.

*Hab.* ad terram, Victoria Australiæ. — Pileus 2 cm. diam.; stipes 3 cm. long.

3. *Hypholoma aggregatum* Peck 46 Rep. p. 26. — Pileo tenui, con- 468

vexo v. subcampanulato, griseo-albo, nigro-fibrilloso; lamellis subdistantibus, deorsum rotundatis, subliberis, ex albido brunneis v. atro-brunneis, acie albis; stipite longiusculo, cavo, subflocculoso v. fibrilloso, albo; sporis brunneis 7  $\approx$  4-5.

*Hab.* ad truncos in silvis, Amer. bor. — Pileus 2,5 cm. lat.; stipes 5-7 cm. long., 2,5-4 mm. cr. *H. silvestri* affine.

4. *Hypholoma marcescibile* Britz. Hym. Südbayer IX, p. 12, f. 209. 469

*Hab.* in agris Baviaræ australis. — Sordide griseum v. flavo-griseum; sporæ 14  $\approx$  6. *H. piluliformi* affine.



**PSILOCYBE** Fr. — Syll. V, p. 1043, IX, p. 140.

1. *Psilocybe catervata* Massee *Fungus-flora* I, p. 378. — Dense fa- 470  
sciculata; pileo campanulato, obtuso, niyeo, æquali, glabro, sericeo-  
nitenti, contextu crassiusculo, albo; stipite æquali, vulgo subfle-  
xuoso, cavo, albo, micante, fragili; lamellis leniter adnexas, latiu-  
sculis, confertis, griseis dein brunneis purpureo-tinctis, acie inte-  
gra, alba; sporis ellipsoideo-oblongis, levibus, brunneo-purpureis  
12-4; basidiis fusoides 60-70-12.

*Hab.* ad terram, Carlisle Britanniae (CARLISLE). — Pileus 12-16  
mm. diam.; stipes circ. 5 cm. long., 2 mm. cr.

2. *Psilocybe togoënsis* P. Henn. *Fungi Afr.* p. 353. — Pileo subcar- 471  
noso, convexo-explanato dein depresso-umbilicato, levi, glabro hy-  
grophano, margine tenui, inflexo; stipite fistuloso, lateraliter com-  
presso, tenaci, æquali, glabro; lamellis rotundato-adnatis, furcatis,  
subundulatis, confertis, griseo-brunneis; sporis globoso-ellipsoideis  
v. ovoideis, subfuscis, 8-10-6-7.

*Hab.* ad truncos, Togo Africae (BUTNER). — Pileus 1-2 cm.  
diam.; stipes 1-1,5 cm. long., 2-3 mm. cr. *P. cernuae* et *P. spa-  
diceae* affinis.

3. *Psilocybe rhombispora* Britz. *Hym. Südbayer* IX, p. 13, f. 221-224. 472

*Hab.* in silvaticis Bavariae australis. — Ex albido flavo-rubra  
v. rubro-brunnea; sporæ 5-8-4-5 rhombeæ. *P. bullatae* affinis.

4. *Psilocybe parviducta* Britz. *Hym. Südbayer* IX, p. 13, f. 211, 216 473

*Hab.* in agris Bavariae australis. — Rubro-brunnea, opaca; spo-  
ræ 8-6. *P. bullaceae* affinis.

5. *Psilocybe subuda* Britz. *Hym. Südbayer* VIII, 9, f. 193. 474

*Hab.* in pascuis montanis Bavariae australis. — Sordide pal-  
lens; sporæ 8-4.

6. *Psilocybe discordabilis* Britz. *Hym. Südbayer* VIII, p. 9, f. 189. 475

*Hab.* in pascuis montanis Bavariae australis. — Brunneo-al-  
bicans; sporæ 8-5-6. *P. discordanti* affinis.

7. *Psilocybe subcrophila* Britz. *Hym. Südbayer* VIII, p. 9, f. 11, 114. 476

*Hab.* in terra fimetosa Bavariae australis. — Flavido-albicans;  
sporæ 18-20-10-12.

8. *Psilocybe recognita* Britz. *Hym. Südbayer* VI, p. 25, fig. 155 477  
(*Agaricus*).

*Hab.* in arvis Bavariae australis. — Violaceo-brunnea, opaca;  
sporæ 12-8-9.

**DECONICA** W. Smith. — Syll. V, p. 1058, IX, p. 141.

1. *Deconica bulbosa* Peck 46, Rep. p. 27. — Pileo submembranaceo, 478  
convexo dein subplano, glabro, margine tenuiter striato, ex albido  
albo-brunneo; lamellis latis, distantibus, adnatis, purpureo-brunneis;  
stipite gracili, firmo, cavo, bulboso, griseo-fibrilloso; sporis purpu-  
reo-brunneis, 7  $\approx$  5.

*Hab.* ad caules emortuos, Amer. bor. — Pileus 6-12 mm. lat.;  
stipes 16-24 mm. long.

2. *Deconica bryophila* Peck 46 Rep p. 26. — Pileo tenui, ad mar- 479  
ginem membranaceo, subconico dein convexo v. subplano, glabro,  
hygrophano, castaneo v. atro-brunneo, humecto margine striatulo,  
cremeo-albo, sicco griseo-albo v. pallide brunneo et sæpe margine  
distincte striato; lamellis latis, distantibus, adnatis v. subdecurren-  
tibus, plano v. ventricosus, e pallide brunneo purpureo-brunneo;  
stipite gracili, juventute subsericeo-fibrilloso, farcto v. cavo, pal-  
lido v. brunneo; sporis brunneis 7  $\approx$  5.

*Hab.* ad terram muscosam, Amer. bor. — Pileus 6-12 mm.;  
stipes 16-24 mm. long. *D. bullaceæ* affinis.

3. *Deconica examinata* Britz. Hym. Südbayer VI, p. 26, fig. 145. 480

*Hab.* in hortis Baviaræ austr. — Griseo-albida; sp. 14-16  $\approx$  5-8.

**PSATHYRA** Fr. — Syll. V, p. 1060, IX, p. 142.

1. *Psathyra Barlaë* Bres. Fung. Trident. I, p. 84, tav. 91. — Pileo 481  
membranaceo, campanulato-expanso, carneo-fusco demum lateritio-  
umbrino, centro fulvello v. lutescenti, ruguloso; lamellis ventrico-  
sis, subconfertis, postice rotundato v. sinuato-adnatis e carneo-pur-  
pureis, fusciscentibus, acie albo fimbriata; stipite fistuloso, subæ-  
quali, purpureo, expallenti, deorsum stramineo, apice albo pruinoso,  
basi albo-flocculoso; sporis carneo-fuscis, 12-15  $\approx$  7-8.

*Hab.* locis umbrosis. — Pileus 2,5-3,5 cm. lat.; stipes 6-8 cm.  
long., 3-5 mm. cr. *Psath. corrugi* affinis.

2. *Psathyra neglecta* Massee Fungus-flora I, p. 356. — Pileo con- 482  
vexo, dein subplano, æquali, glabro, pallide ochraceo, sicco non ri-  
moso, disco excepto albicanti; lamellis leniter adnexis, latiusculis,  
ventricosis dein purpureo-brunneis, confertis; stipite gracillimo,  
subundulato, pellucido, glabro, albo, deorsum rufescenti; sporis elli-  
psoides, purpureo-brunneis, levibus, 12  $\approx$  6; basidiis copiosis, fusoi-  
des, 50-60  $\approx$  12-14.

*Hab.* ad terram in horto kewensi Briṭanniæ. — Pileus circ. 6  
mm. diam.; stipes circ. 2,5 cm. long.

3. *Psathyra griseo-badia* Pat. Bull. Soc. Myc. 1892, p. 47. — Pileo he- 483  
misphærico, ad marginem striato, pruinoso pulverulento, sicco, tenaci, rubro-fuscescenti; lamellis numerosis, inæqualibus, integris adnatis, fuscis; sporis violaceo-rubris  $10 \approx 7$ ; stipite farcto, gracili, glabro, rubescenti, extremitatibus incrassato, sicco, tenaci.

*Hab.* ad ligna putrida, Tonkin BON. — Pileus 4-8 mm.; stipes 1-3 cm. long., 2 mm. cr., annulo destitutus.

4. *Psathyra ombrophila* Karst. Hedw. 1893, p. 119. — Pileo carno 484  
sulo plano, disco subgibboso, orbiculari, levi, subnaucoso-granuloso; stipite æquali præcipue intus rufo-rubrescenti, adpresse subsericello, basi subtuberiformi; lamellis adnexis, confertis, ventricosi, atratulis, exsiccando fuscis; sporis flavescentibus  $4-6 \approx 2-3$ .

*Hab.* in ollis tectis, ubi tubera Philodendri asservata sunt, Mustiala. — Pileus 2 cm. diam.; stipes 3 cm. alt., 2 mm. cr.

5. *Psathyra squamosa* Karst. Hedw. 1893, p. 59, *Ps. pennata* Fr. 485  
var. *squamosa* Karst., — Syll. V, p. 1072. — Pileo carnosulo, e campanulato-hemisphærico expanso, fulvescenti-fusco, siccitate alutaceo e squamuloso-plumoso glabro; stipite fistuloso, æquali flexuoso, undulato, apice farinaceo e squamuloso glabrato, argenteo-nitenti; lamellis adnatis v. adfixis, confertis, ventricosi e cinerescenti fuscis; sporis fuscis  $6-10 \approx 3-5$ .

*Hab.* ad terram inter ramenta lignea Mustiala. — Pileus 2-4 cm. lat.; stipes usque ad 7 cm. long., 2-5 mm. cr. A *P. gossypina* (Bull.) et a *P. pennata* Fr. colore sporisque minoribus dignoscenda.

6. *Psathyra exsignata* Britz. Hym. Südbayer IX, p. 13 f. 231. 486

*Hab.* in agris Baviaræ australis. — Pallide rubro-brunnea; sporæ  $10-12 \approx 6-8$ . *P. cinctulæ* affinis.

7. *Psathyra persimplex* Britz. Hym. Südbayer VI, p. 25, fig. 146 487  
(*Agaricus*).

*Hab.* ad sepes in Bavaria australi. — Flavo-brunnea v. brunnea; sporæ  $10-12 \approx 5-6$ .

8. *Psathyra subobiusa* Britz. Hym. Südbayer VIII, p. 9, f. 200. 488

*Hab.* in paludosis Baviaræ australis. — Brunnea; sporæ  $12-14 \approx 8-10$ .

# **BOLBITIUS** Fr. — Syll. V, p. 1023, IX, p. 143.

1. *Bolbitius candidus* C. et Massee Grev. XXI, p. 37. — Pileo mem- 489  
branaceo, campanulato dein plano, albo, levi, margine striatulo; stipite æquali, subfibroso, cavo, basi farinoso, albo; lamellis liberis collare circa stipitem relinquentibus, acie serrulata, ferruginea;

sporis ellipsoideis, levibus, læte aurantio-brunneis, initio 2-guttatis, 10-12 = 6.

*Hab.* in reliquiis stabulorum, Brighton Victoria Australiæ (MARTIN). — Pileus 3-5 cm. lat.; stipes 3 mm. cr.

**COPRINUS** Pers. — Syll. V, p. 1078, IX, p. 144.

1. **Coprinus equinus** Chelchows. Fung. fomicoli polonic. p. 6, tab. XI, 490  
fig. 11. — Pileo tenerrimo e pelliculoso, secundum dorsum lamellarum hiascenti, ex ovato campanulato, dein expanso, cinereo-albido, furfure et floccis obscurioribus tecto; disco obscuriore, 3-15 mm. lato; lamellis liberis albido-nigricantibus; stipite tenui, gracili, glabro; basi bulbiloso volvato annulato; sporis rotundis v. elliptico-obtuso-rotundis, 5-8 = 4-5.

*Hab.* in fimo equino, Varsoviæ rarissimus. — Stipes 18-35 mm. longus.

2. **Coprinus Flosculus** Berk. Fl. Ant. II, p. 448, pl. 162, fig. 2. — 491  
Minimus tenerrimus; pileo glabro, ovato demum expanso, hemisphærico, fisso, sulcato, vertice depressiusculo; stipite brevi, filiformi, leviter ad basim turgido, demum æquali; lamellis liberis, paucis, linearibus, remotis.

*Hab.* in fimo ad insulas Falkland. — Pileus 3-3,5 mm. alt., 2 lat.; stipes 1 mm. long. Affinis *C. hemerobio*.

3. **Coprinus virgineus** Bann. et Peck 44 Rep p. 71. — Pileo ovoideo, 492  
campanulato v. cylindraceo, pallide ochraceo, margine tenui, lacero, floccoso; lamellis angustis, confertis, furcatis, primo albis dein atris sed nunquam nigris, adnexis; stipite valido, subfarcito, apice attenuato, applanato, floccoso; sporis nigris.

*Hab.* in Maryland et Virginia Amer. bor. — Fungus cæspitosus v. gregarius; stipes 9-9,5 cm. long.

4. **Coprinus arenatus** Peck 46 Rep. p. 27. — Pileo tenui, primitus 493  
ovato v. subhemisphærico mox convexo v. campanulato, squamulis parvulis, tomentosus albis consperso, margine striato, albido v. griseo-albo, ætate griseo-brunneo; lamellis latis, confertis, liberis, griseo-albis mox purpureo-brunneis demum nigris, cystidiis, hyalinis albis numerosis prorumpentibus ornatis; stipite æquali, glabro, cavo, albo; sporis late ovatis v. subglobosis, purpureo-brunneis, 7,5-9 = 5,5-7,5.

*Hab.* ad terram arenosam solitarius v. gregarius, Karner, Amer. bor. — Pileus 2,5-5 cm. lat.; stipes 2,5-5 cm. long., 2-4 mm. cr.

5. **Coprinus umbrinus** C. et Massee Grev. XXI p. 41. — Pileo primo 494

conico-hemisphærico dein fere plano demum margine rimoso et revoluto, atro-umbrino, discum versus grosse sulcato, squamis floccosis, niveis vestito, apice vulgo veli primarii vestigio prædito; lamellis liberis, a stipite remotis, confertis, tenuibus, dein nigris, margine persistenter albo; stipite, sensim superne subattenuato, cavo, initio atro-umbrino, micanti, basi bulboso, volva alba persistente vaginato; basidiis cylindraceis, deorsum valde attenuatis, apice truncatis,  $35-40 \approx 14-15$ ; sporis fuligineo-nigris, ellipsoideo-oblongis, oblique apiculatis,  $17-18 \approx 9$ ; sterigmatibus nullis.

*Hab.* ad terram stercoretam, Kew Britannæ. — Pileus 2,5–4,5 cm. diam.; lamellæ 3 mm. lat.; stipes 10–15 cm. long., 6–8 mm. basi cr.

6. *Coprinus volvaceo-minimus* Crossland Grev. XXI, p. 69. — Pileo 495  
ovoideo dein campanulato, griseo, ad cinereum vergenti, disco saturatiore, squamulis albis adperso, membranaceo, striato, demum margine rimoso et reflexo; lamellis fere liberis, angustis, utrinque attenuatis dein nigrescenti-purpureis; stipite apice leniter incrassato, fistuloso, glabro, hyalino, basi bulbosa, annulo v. collari distincto persistente dein reflexo prædito; sporis nigrescenti-purpureis, subglobosis, minute apiculatis, 6–7  $\mu$ .

*Hab.* in ericetis stercoretis, Wellhead, Halifax Britannæ. — Pileus 6 mm. lat.; stipes 18–25 mm. long., minus quam 2 mm. cr. annulus circ. 3 mm. lat.

7. *Coprinus cupulatus* E. Jacob. Mitteil. Brandenb. p. XXXI. — Pileo 496  
ex albo griseo-violascenti, e conico subcampanulato, vertice cupulato griseo-flavido plicato-sulcato, involuto velo crassiusculo, floccoso-membranaceo griseo flavido obtecto, evoluto sub lente pubescenti; lamellis albis demum atropurpureis, liberis; stipite albo, pubescente, basi in bulbillum hemisphæricum, tenuiter strigosum, album incrassato, subæquali, striato, fistuloso; sporis 7–8  $\approx$  6–7.

*Hab.* ad ramulos emortuos Friedenau. — Stipes 5–7 mm. alt. *C. Friesii* Quél., *C. tigrinello* Boud. et *C. Queletii* Schulz. affinis.

8. *Coprinus saatiensis* P. Henn. Fung. Afr. p. 352. — Pileo 497  
primum cylindraceo-ovato, squamis albis, laceratis, imbricatis concentricisque tecto, deinde explanato, fuligineo-nigro, squamis latis, albis, sparsis variegato; stipite cavo-cylindraceo, basi incrassato v. bulboso, albido-fuscescenti; lamellis liberis, lanceolatis ex albo fuscescentibus nigris; sporis atrofuscis, ellipsoideis v. ovoideis  $19-23 \approx 10-12$ .

*Hab.* ad Saati in col. Erythræa Abyssiniæ (G. SCHWEINFURTH). — Pileus 5 cm. diam.; stipes 8 cm. long., 1 cm. cr.



9. *Coprinus solstitialis* (Karst.) Sacc. *Oncopus* Karst. Hedw. 1892, p. 498 220. — Pileo submembranaceo subcylindraco, disco carnosulo, usque ad basin stipitis adpresso, squamuloso, apice calypttrato, profunde sulcato demum revoluta ex albido fusciscenti; stipite cylindraco basi incrassato, radicato annulato-volvaceo, candido; lamellis liberis, sublinearibus, primo albis mox rubescentibus demum nigricantibus.

*Hab.* ad terram arenosam, Mustiala. — Pileus 2-3 cm. alt. 1,5 cm. lat., et diam. 5 cm.; stipes 3-6 cm. long., 2-5 mm. cr. *C. clavato* et *C. sterquilino* proximus.

10. *Coprinus marculentus* Britz. Hym. Südbayer IX, p. 13, f. 237, 238. 499

*Hab.* in fimo Bavaricæ australis. — Pallide griseus, furfuraceus; sporæ 10-12 = 8, subhexagonæ.

11. *Coprinus pseudo-nycthemerus* Britz. Hym. Südbayer IX, p. 13, 500 f. 256.

*Hab.* in cultis Bavaricæ australis. — Flavo-brunneus v. griseus centro flavicans; sporæ 14 = 10, subglobosæ.

**PANÆOLUS** Fr. — Syll. V, p. 1118, IX, p. 147.

1. *Panæolus campanulatus* L. — Syll. V, p. 1121 — var. *elatio* Brun. 501 Glan. mycol. Ser. 3 Herbor. 1892-93, p. 1. — Pileo campanulato-expanso, submamillato, griseo-argenteo; stipite elongato annulato.

*Hab.* ad terram, Rochefort, Saintes, Pessines. — Pileus 6-8 cm. diam.; stipes 12-15 cm. long.

2. *Panæolus cinereo-fuscus* Britz. Hym. Südbayer VI, p. 26, fig. 169. 502

*Hab.* in silvaticis Bavaricæ australis. — Griseo-brunneus; sporæ 18 = 10.

3. *Panæolus expromptus* Britz. Hym. Südbayer VI, p. 26, fig. 159 503 (*Agaricus*).

*Hab.* in silvaticis Bavaricæ australis. — E flavo griseo-brunneus; sporæ 8-10 = 6.

4. *Panæolus albido-cinereus* Britz. Hym. Südbayer VI, p. 26, fig. 165 504 (*Agaricus*).

*Hab.* in campis Bavaricæ australis. — Pallide griseus; sporæ 14 = 6-7.

5. *Panæolus obtusisporus* Britz. Hym. Südbayer X, p. 169, f. 259. 505

*Hab.* in cultis Bavaricæ australis. — Flavo-brunneolus; sporæ 8 = 5. *P. acuminato* affinis.

**PSATHYRELLA** Fr. — Syll. V, p. 1116, IX, p. 149.

1. *Psathyrella tenera* Peck 47 Rep p. 18. — Pileo tenui, campanu- 506



lato, obtuso, subhygrophano, rufo-cinereo, sicco pallenti, ruguloso-atômato; lamellis latis, adnatis, subdistantibus subcinereis dein nigricantibus, acie alba; stipite tenui, glabro, albo, basi mycelio floccoso albo cincto; sporis anguste ellipsoideis  $12-14 \approx 7-8$ .

*Hab.* ad terram fimo mixtam, Pierre pont Manor Jefferson county Amer. bor. — *P. gracili* subaffinis.

2. *Psathyrella sulcata* Clem. Bot. Surv. Nebr. III, 1893, 13. — Pileo 507 campanulato-expanso, e griseo nigricanti, pellucido, profunde radiato-sulcato, umbone levi flavo; stipite nitido, gracili, fistuloso, supra albo, infra rufescenti; lamellis adnexis, subventricosis, cinereis acie nigra, demum nigricantibus; sporis ovoideo-apiculatis, fusco-purpureis  $8-10 \approx 5-6$ .

*Hab.* in campis Lynkoln, Amer. bor. — Pileus 1-2,5 cm. long; stipes 4-6 cm. long.

3. *Psathyrella longicauda* Karst. in Hedw. 1891, p. 298. — Pileo 508 membranaceo, convexo, umbonato, glabro, usque ad umbonem pellucide striato, margine ultimo subcrenulato, fuligineo-flavescenti, hygrophano; stipite fistuloso æquali, subglabro, apice albo-pruinoso, eximie radicato; lamellis adnatis, confertis, e ventricososublineariis, e griseo atropurpureis; sporis pellucidis  $13-16 \approx 7-9$ ; basidiis crassis clavatis  $33-42 \approx 15$ ; paraphysibus capitato-clavatis  $25-28 \approx 12-15$ .

*Hab.* inter folia coacervata putrida, Mustiala. — Pileus 1,5 cm. diam.; stipes 3 cm. long., 2 mm. cr. A *P. gracili*, cui affinis, sporis obscurioribus majoribusque, lamellis acie albis, stipite tenaciore et radicato differt.

4. *Psathyrella ampelina* Foex et Viala in Viala, Les Maladies de la 509 vigne, ed. III, p. 316, fig. 119. — Pileo conico-expanso, sublevi, pallide brunneo, tenero, pilosulo; stipite cylindrico, erecto, albo, nitido, deorsum papilloso-villoso, ex mycelio (*Fibrillaria*) copioso late repente, albo, oriundo; lamellis confertis, angustis, roseo-violaceis, dein cinereo-brunneis; sporis ovoideis,  $4-5 \mu$ . long.

*Hab.* in radicibus Vitis viniferæ in Gallia, Algeria, America etc. — Stipes 6-12 cm. alt., pileus 2-3 cm. lat.

5. *Psathyrella trepidula* Britz. Hym. Südbayer VIII p. 10, f. 203. 510

*Hab.* in silvaticis Baviaræ australis. — Cinereo-brunnea, centro rufa; sporæ  $12-14 \approx 6$ .

6. *Psathyrella perscrutata* Britz. Hym. Südbayer IX, p. 13, f. 229, 230. 511

*Hab.* in pratis Baviaræ australis. — Grisea; sporæ  $14-18 \approx 8-10$  citriformes. *P. subtili* affinis.

7. *Psathyrella subligans* Britz. Hym. Südbayer VIII, p. 9, f. 202. 512

*Hab.* in silvaticis Baviariæ australis. — Brunneo-grisea, nigricans; sporæ 8-10  $\approx$  6.

8. *Psathyrella albido-cinerea* Britz. Hym. Südbayer VIII, p. 10, f. 199. 513

*Hab.* in arvis Baviariæ australis. — Pallide grisea; sporæ 14  $\approx$  6-8.

**MONTAGNITES** Fr. — Syll. V, p. 1140.

1. *Montagnites tenuis* Pat. Jour. de bot. 1894, p. 219. — Pileo cy- 514  
lindræo sinuoso, griseo, basi truncato, 12 mm. lat., 8-10 mm. alt.;  
lamellis confertis, nigris, inæqualibus; stipite squamoso, gracili,  
6-7 cm. alto; sporis atris v. violaceis, 7-8  $\approx$  4-5.

*Hab.* in sabulosis pr. Gabes Africæ bor. — Species tenella, affinis *M. Haussknechtii*, sed sporis paulo majoribus et habitu diversa.

2. *Montagnites Elliotti* Massee Grev. XXI, p. 1. — Pileo ellipsoideo 515  
dein campanulato, demum expanso et fere plano, disco depresso, levissimo, albido; volvæ margine stipitis apici adnexo, lacero; lamellis liberis, confertis, tenuibus, sicco nigrescentibus; stipite solido, sublignoso, sursum æqualiter incrassato, apice sulcato, deorsum fibrilloso, pallido, basi volva amplâ, laxa vaginato; sporis ellipsoideis, atrobrunneis, 12  $\approx$  7.

*Hab.* in sabulis, Nile Valley Novæ Zelandiæ. — Pileus 3-4 cm. diam.; stipes 10-15 cm. long., 6-8 mm. prope apicem cr. *M. Haussknechtii* affinis.

**Fam. 2. Polyporacæ Fr.**

**BOLETUS** Dill. — Syll. VI, p. 2, IX, p. 150.

1. *Boletus brunneus* Cook. et Mass. Grev. XIX, p. 90. — Pileo pul- 516  
vinato, convexo, subtomentoso, demum in squamas innatas fisso.  
rufescenti-brunneo; stipite brevi, crasso, superne attenuato, pileo  
conco'lore, nigro-striato; contextu albido, fracto cyaneo demum  
brunneo; tubulis liberis; poris latiusculis, angularibus, viridi-griseis; sporis olivaceis 14-15  $\approx$  4.

*Hab.* ad terram, Victoria Australiæ. — Pileus 10-12 cm. lat.; stipes 7 cm. long., 5 cm. cr.

2. *Boletus ignoratus* Bann. et Peck 44 Rep p. 73. — Pileo convexo, 517  
viscido, læte citrino, lineis rugosis aurantiacis; contextu albo, solido,  
fracto colore immutabili, sapore subacido; poris citrinis, majusculis,  
liberis, stipiti e filamentis arachnoideis. connexis; stipite apice cras-

sio, basim versus subattenuato, flavo, levi, solido; sporis  $11 \approx 4,5$ .

*Hab.* ad Druid Hill Park Amer. bor. — *B. unicolori* affinis, a quo vix differt contextu albo tubulisque liberis.

3. **Boletus Leguei** Boud. Bull. Soc. Myc. Fr. 1894, p. 62, tab. II, 518  
f. 1. — Pileo e pulvinato expanso, brunneo-fulvo, sicco villosotomentoso; poris luteis, compositis, adnatis; stipite albido-ochraceo, medio rufescenti, superne reticulo flocculoso, crasso, rufo-granuloso ornato; sporis oblongo-fusiformibus, luteo-olivascensibus,  $14-15 \approx 5-6$ .

*Hab.* ad terram in Gallia (LÉGUÉ). — Pileus 6-8 cm. lat. *B. granulato* affinis.

4. **Boletus paludosus** Massee Fungus-flora I, p. 279. — Pileo tenuiter 519  
convexo dein omnino plano, glabro, æquali, subviscido, nitido, rufo-brunneo, sicco pallidiore, contextu firmo, tenui uniformi, pallidissime brunnescenti, immutabili; tubulis adnatis, subdecurrentibus, late apertis, angularibus, compositis, flavidis dein olivaceis; stipite æquali, attenuato, levi, pileo pallidiore, anulo destituto, solido; sporis olivaceis  $16 \approx 4$ .

*Hab.* in paludosis Britanniae. — Pileus 10-12 cm. diam. *B. badio* affinis.

5. **Boletus crassus** Massee Fungus-flora I, p. 286. — Pileo e con- 520  
vexo expanso, sæpe irregulariter undulato v. noduloso, dense tomentoso, interdum areolato-fisso, sæpius flavo-brunneo, contextu crasso versus marginem, firmo, diu albo, dein pallide flavescenti; tubulis initio brevibus, præcipue circa stipitem et fere v. omnino liberis, irregulariter rotundatis, sæpius simplicibus, e pallido flavescentibus; stipite e subgloboso, elongato, apice subattenuato pileoque pallidiore, basim versus subalbido, glabro, contextu ex albido flavido; sporis pallide flavescentibus,  $10 \approx 3$ .

*Hab.* in silvis Britanniae. — Pileus 10-15 cm. diam.; stipes 3-4 cm. long. *B. impolito* affinis.

6. **Boletus recedens** Britz. Hym. Südbayer VI, p. 33, f. 46. 521

*Hab.* in silvaticis Bavariae australis. — Ochraceo-flavus v. rubro-flavus; sporæ  $8 \approx 2-3$ , vix flavidae.

7. **Boletus exannulatus** Britz. Hym. Südbayer VI, p. 33, fig. 35. 522

*Hab.* in silvaticis Bavariae australis. — Rubescenti-flavus; sporæ  $8 \approx 3-4$ .

8. **Boletus immutabilis** Britz. Hym. Südbayer VI, p. 33, fig. 44. 523

*Hab.* in silvaticis Bavariae australis. — Griseo-brunneus; pori sulphurei.

9. *Boletus luteo-badius* Britz. Hym. Südbayer VIII, p. 12, f. 51. 524  
*Hab.* in silvaticis Baviariæ australis. — Flavo-brunneus; sporæ 10-11  $\approx$  4. *B. badio* affinis.
10. *Boletus extractus* Britz. Hym. Südbayer IX, p. 19, f. 71, 70. 525  
*Hab.* in silvaticis Baviariæ australis. — Flavo-ruber v. flavo-brunneus; sporæ 9-11  $\approx$  3-3.5. *B. flavido* affinis.
11. *Boletus indecisis* Britz. Hym. Südbayer IX, p. 19, f. 68. 526  
*Hab.* in silvaticis Baviariæ australis. — Totus griseo-isabellinus; sporæ 10-12  $\approx$  4. *B. fuligineo* affinis.
12. *Boletus larignus* Britz. Hym. Südbayer IX, p. 19, f. 22, 55. 527  
*Hab.* in silvaticis sub Laricibus Baviariæ australis. — Totus sordide flavo-roseus; sporæ 10-13  $\approx$  4.

**STROBILOMYCES** Berk. — Syll. VI, p. 40, IX, p. 159.

1. *Strobilomyces polypyraxis* Hook. in Berk. Decades n. 332. — 528  
Pileo lato expanso, toto areolato-verrucoso, umbrino, carnoso, intus rubido; stipite valido, levi, fusco-purpureo; poris latis adnexis ore rubidis; sporis globosis, atropurpureis, granulatis.  
*Hab.* ad terram, Jilapahar Indiæ. — Pileus 15-16 cm. lat.; stipes 12 cm. long., 3 cm. crass. *S. strobilaceo* affinis.
2. *Strobilomyces ligulatus* Cooke Grev. XX, p. 4. — Pileo convexo, 529  
hemisphærico, brunneo, squamulis ligulatis saturatioribus consperso, filamentis parallelis composito, sæpe extremitate recurvo; stipite striato, fibrillis paucis consperso, pallidiore, superne subattenuato; tubulis longis, postice attenuatis, angulatis, flavido-rufescentibus; sporis fuscis, ellipticis 20  $\approx$  10.  
*Hab.* ad terram, Victoria Australiæ. — Pileus 10 cm. diam.; stipes 12 cm. long., 2 cm. cr.
3. *Strobilomyces fasciculatus* Cooke Grevill. XX, p. 4. — Pileo he- 530  
misphærico, convexo, rufo-brunneo, squamuloso; areolis pentagonalibus, amplis; stipite quasi æquali, pallidiore; tubulis elongatis, deorsum liberis, angularibus, flavidis; sporis ellipticis, pallide brunneis, 10-12  $\approx$  5.  
*Hab.* ad terram, Victoria Australiæ. — Stipes 8-10 cm. long., 1.5 cm. cr.; pileus 8-10 cm. diam.

**GYRODON** Opat. — Syll. VI, p. 51, IX, p. 160.

1. *Gyrodon cæspitosus* Masse Fungus-flora I, p. 297. — Pileo he- 531  
misphærico, margine solite undulato, acuto, disco olivaceo-umbrino, marginem versus pallidescenti, ambitu pallide roseo, tomentoso,

sicco; contextu crasso, solido, flavido, fracto cyanescenti et mox luride albido demum rufo; tubulis irregulariter apertis, elongatis, sinuosis, flavidis; stipite apice attenuato, æquali, glabro, flavido, basi atro-rufo, solido; sporis pallide olivaceis,  $12 \approx 4$ .

*Hab.* inter herbas sub arboribus Britanniae. — Pileus 2,5-5 cm. diam.; stipes 3-5 cm. long.

**POLYPORUS** Mich. em. — Syll. VI. p. 55, IX. p. 161.

1. **Polyporus albulus** Karst. *Fragm. mycol.* XLII, in Hedwigia 1894, 532 p. 15 (*Polyporellus*) — Pileo lento dein coriaceo, orbiculari, convexo-plano, profunde umbilicato, tenui, glabro, obsolete zonato; stipite centrali, curto, basi tuberculoso, incrassato, subtomentoso; poris fere ad basin stipitis decurrentibus, rotundis, minutissimis.

*Hab.* ad lignum Helsingforsiae, in calidariis. — Pileus 3,5 cm. lat.; stipes 2 cm. alt.

2. **Polyporus rhizophilus** Pat. *Journ. de bot.* 1894, p. 219. — Pileo 533 orbiculari, integro v. sinuoso, carnosocoriaceo, albido, tenui, levi, glabro; trama alba, 2-3 mm. cr.; poris integris anguloso-inæqualibus, septis tenuibus, mollibus; tubis curtis 1 mm. long. subalbis; stipite centrali v. excentrico, 1-3 cm. long., 6 mm. cr. farcto, albo, basi brunneo, e radice longa, crassa, sabulo incrustata oriundo; sporis hyalinis, ovoideo-fusoideis, levibus.

*Hab.* in rhizomatibus Graminearum viventium p. Tebessa et Bou Chebka Africae bor. — Affinis *P. eleganti*, sed pori potius *P. biennis*; ad *P. nanum*, quoque accedere videtur.

3. **Polyporus depressus** Pat. *Bull. Soc. Myc.* 1888, p. 129, *P. om-* 534 *phalodes* Pat. l. c. p. 27, nec Berk. — Pileo orbiculari, centro umbilicato, glabro, tenui, brunneo-rufescenti, concentrice nigro-zonato; poris roseolis, minutis, rotundis, dissepimentis crassis, tubulis brevibus, non decurrentibus; stipite farcto, rufescenti, apice incrassato, in radicem elongato; sporis hyalinis, 6-7  $\mu$ . diam.

*Hab.* ad terram, S. Fernando. — Pileus 4-6 cm. diam.; stipes 6-10 cm. long., 8-10 mm. crass.

4. **Polyporus Savoyanus** Pat. *Rev. Myc.* 1891, p. 136. — Pileo tenui, 535 sicco, coriaceo, glabro v. vix puberulo, cyathiformi, margine acuto sinuoso, rufo-brunneo, nigro, concentrice zonato; poris rotundis, integris, minimis, dissepimentis crassis; tubulis brevissimis; stipite gracili, cylindraceo, æquali, fragili, ochraceo-brunneo, apice griseo-nitenti.

*Hab.* ad terram, Venezuela Amer. austr. (Savoye). — Pileus 2



cm. alt., 3 cm. lat.; stipes 8-15 cm. alt., 3 mm. cr. *Polyst. renato* et *P. Parmulæ* affinis, hinc potius *Polystictus*.

5. *Polyporus gualænsis* Pat. Bull. Soc. Myc. 1893, p. 129. — Pileo 536  
 flabelliformi, tenui, coriaceo-membranaceo, pellucido, longitudina-  
 liter striato-plicato, margine inciso lobato, glabro, fulvo, postice in  
 stipitem cylindraceum brevem inferne nigricantem, basi in discum  
 dilatata, attenuato; poris albis, minutissimis, angulosis.

*Hab.* ad ligna emortua, Gualæ in Æquatoria.

6. *Polyporus Mylittæ* C. et Masee Grev. XXI, p. 37. — Pileo car- 537  
 noso, tenaci, elastico, pulvinato, simplici v. 2-3 connatis, et tunc de-  
 formi, convexo, minute velutino, albo; stipite brevi, deformi, solido,  
 contextu albo; tubulis longiusculis; poris albis, adnatis, subangu-  
 latis, acie acuta, marginem versus minoribus; sporis ellipsoideis,  
 apiculo basali obliquo prædito, levibus,  $8 \approx 4$ .

*Hab.* ad Mylittam australem, in Australia merid. — Pileus 10  
 cm. diam.; stipes 2 cm. long.; tubuli 7 mm. long.; pori 0,5 mm.  
 diam. — Sequens, homonymus, verisimiliter idem est: *Polyporus My-*  
*littæ* Sacc. Hedw. 1893, p. 56: Spongioso-subereus, flexilis, totus  
 albus v. albidus, plano-convexus, glaber, leviusculus, 16 cm. diam.,  
 margine eximie sinuato, acuto, involuto, contextu albo, centro 1,5  
 cm. cr.; stipite subcentrali tenui (incompleto viso); tubulis medio-  
 crius, angulosis, ore integro, 0,5-0,7 mm. diam., 6-10 mm. longis,  
 æqualibus, ex albo cremeis; sporis globosis, vix apiculatis, 4,5-5  
 $\mu$ . diam., hyalinis. Ad Mylittam australem, ex qua propriam origi-  
 nem ducit, Western Port Victoria (Prof. W. B. SPENCER). — Contex-  
 tus Polypori et Mylittæ sat similis filamentis tortuosis hinc inde  
 globoso-inflatis constans, æque albus et subereo-mollis; hinc pro-  
 babilitas maxima *Mytilittam* esse formam sclerotioideam Polypori,  
 quæ ad hunc se refert ut *Ceratomyces* ad *Polyporum biennem*. In  
 Mylittæ oculis observavi sporas (?) globosas, leves, hyalinas, exi-  
 mie nucleatas, 14-15  $\mu$ . diam. *Polyporus proteiporus* Cooke (Syll.  
 fung. VI, p. 79) certe affinis est, sed satis recedere videtur, quia  
 terricola porisque maxime irregularibus (proteis), pallide umbri-  
 nis etc.

7. *Polyporus albo-aurantius* Veuill. in Rev. Myc. t. V, p. 45, Ann. 538  
 Soc. bot. Lyon t. XVII, p. 288. — Imbricatus, pileo effuso-reflexo,  
 omnino albo, pellucenti zonato, villosa-pubescenti, 1-2<sup>3</sup> cm. long.;  
 tubis parum elongatis ore anguloso labyrinthiformi, tactu auran-  
 tiacis; carne alba; sporis globosis v. ovoideis, 6-8  $\mu$ . long.

*Hab.* in truncis pineis, Charbonnières et pr. Tarrare Gallie. An.



- teste Quélet, *P. borealis* Wabh. forma juvenilis? *P. dichroo* affinis.
8. **Polyporus vivax** Berk. Hook. Journ. 1862, p. 140. — Pileo sub- 539  
flabelliformi, e planta annotina redivivo, scabro subtomentoso, zonato, margine dèmum resinoso; poris parvis, acie acuta sublacera.  
*Hab.* in ligno putri, Nepal (HOOKER). — Pileus 2-3 cm. lat., 3-4 cm. long.; pori minuti; senescendo nigricat et glabrescit. *P. boreali* affinis.
9. **Polyporus Vermiculus** Veuill. in Rev. Myc. t. V, p. 46, Ann. Soc. 540  
bot. Lyon t. XVII, p. 288. — Pileo dimidiato, reniformi, albo, hirtò, margine tenui, albo v. rubescenti; poris rubentibus labyrinthiformibus, ore flavo-rufis; carne alba; sporis linearibus, curvulis, 4-5  $\approx$  1.  
*Hab.* in trunco pineo in silvis Labussière pr. Tarrare Galliæ. — An, teste Quelet, forma rufescens *Polypori mollis* Pers.?
10. **Polyporus pachycheiles** Ell. et Ev. Proc. Acad. Phil. 1894, p. 323. 541  
— Imbricatus, tenuis, lacteus, margine dein flavo, vix velutinus tenuiter zonato; poris minutis 2-3 mm. long., 120-150  $\mu$ . latis, subrotundis denique laceratis; carne pilei 1  $\mu$ . crassa, subcartilaginea.  
*Hab.* in ramis putridis Aceris rubri, Newfield N. J. Amer. bor. — Totus 1,5-2 cm. lat., 1 cm. long.
11. **Polyporus multiceps** Pat. Rev. Myc. 1891, p. 137. — Pileis nu- 542  
merosis, coriaceis, membranaceis, tenuibus, rigidis, flabelliformibus, inciso-digitatis, glabris, flavo-brunneis, zonatis, radiatim rugulosis, margine acutissimo, lacero, e trunco communi stipitiformi, velutino, ochraceo fulvo, ligneo, duro, fibroso, intus albo nascentibus; poris parvulis, angulosis elongatis, seriatim dispositis; tubulis brevissimis; sporis hyalinis, levibus.  
*Hab.* ad truncos vetustos, Venèzuela. — Stipes 15 mm. long.
12. **Polyporus dichrous** Fr. Syll. VI, 126. — var. *Ulei* P. Henn. 543  
Hedw. 1892, p. 99. — Pileo carnoso-lento, imbricato, tenui, albo, tomentoso, subsulcato, margine sinuoso, acuto, inflexo, contextu albo; poris minimis, curtis, rotundatis v. angulatis, integris, obtusis, carneo cinnamomeis, ore albo-pruinoso.  
*Hab.* ad truncos emortuos, Itajahy Brasilæ. — Pileus 2 cm. lat., 2 cm. long.
13. **Polyporus roseo-maculatus** Karst. Hedw. 1891, p. 247 (*Bjerkander*). 544  
— Pileo stuppeo-suberoso, seriatim elongato, angusto, azono, pubescenti v. subtomentoso, albido, margine subacuto, resupinato, rarius effuso-reflexo; poris rotundatis, sæpissime obliquis difformibusque, obtusis, curtis, minutis, integris, albidis, roseo-maculatis; sporis elongatis v. oblongatis, subcylindraceis, vulgo rectis 4-6  $\approx$  1,5-2.

*Hab.* ad truncum sectum Laricis sibiricæ in Fennia. — *P. squa-*  
*lenti*, et *P. seriali* affinis.

15. **Polyporus raduloides** P. Henn. F. Afr. II, p. 25. — *Cæspitosus*, 545  
resupinatus v. apodus; pileo coriaceo-membranaceo, tenui, par-  
vulo, sessili, lacteo-flavescenti convexo, applanato, sulcato-squamoso,  
rugoso, margine sæpe reflexo, fimbriato; poris amplis, inæqualibus,  
angulatis, retiformibus v. laceris, pallide flavescentibus.

*Hab.* ad ramos putridos ad lacum Victoria Njansa pr. Bukoba  
Africæ centr. (STUHLMANN). — Pileus 1,5 cm. lat., 1 cm. long.

16. **Polyporus gogolensis** Henn. Fung. novoguin. II, p. 27. — Pileo 546  
suberoso, crasso, pulvinato, ungulato, azono, glabro, villosiusculo,  
molli, albido, margine acuto, usque ad 4 cm., alt., 7 cm. lat., 6 cm.  
long. intus niveo, spongioso, tenaci, molli; hymenio applanato, pal-  
lido; poris minutissimis, punctiformibus, rotundatis, flavescentibus,  
tubulis elongatis usque ad 2 cm. long.

*Hab.* ad truncum in Gogol Novæ Guineæ. — *P. leucocreati*  
et *P. betulino* affinis.

17. **Polyporus turbinatus** Pat. Rev. Myc. 1891, p. 137. — Pileo co- 547  
nico, pendenti, apice inserto; crusta glabra, tenui, lucenti, brun-  
neo-flava, pectinata, sulcata; poris integris, rotundatis v. hexago-  
nis, dissepimentis integris; tubulis longissimis, flexuosis, albis; sporis  
numerosis, ovoideis, basi truncatis, apice obtusis, hyalinis, 13-  
15 = 8-9.

*Hab.* ad ramulos putridos Venezuelæ. — Pileus 10-15 mm. alt.,  
15 mm. diam. — *P. ochroleuco* affinis.

18. **Polyporus Leveillei** Pat. Rev. Myc. 1891, p. 137. — Pileo di- 548  
midiato, semiorbiculari, unguliformi, imbricato-concrescenti, duro,  
rufo; crusta lucenti, rugulosa subscariosa, haud zonata; contextu  
albo, tubulis vix brevior, duro; hymenio convexo, flavo-rufo; po-  
ris integris, regularibus, angulosis; tubulis 2-3 mm. long.; sporis  
ovoideis, hyalinis, 14-15 = 8-10.

*Hab.* ad truncos Abyssiniæ. — Pileus 2 cm. lat. *P. ochroleuco*  
affinis.

19. **Polyporus satpoorensis** G. De Beck Itin. princ. Cob. pag. 146, 549  
t. 16, f. II. — Pileo sessili, semiorbiculari, convexo, margine parum  
revoluto, basi lata adnato, setis longis lacerato-ramosis fusciscenti-  
tibus oblecto; poris magnis fuscis, dissepimentis tenuibus, dentatis.

*Hab.* ad truncos putres in montibus Satpoora Indiæ orient. —  
Pileus 2-3,5 cm. lat.; pori 5-6 mm. long., 1 mm. lat.

20. **Polyporus Bonianus** Pat. Journ. De Bot. 1891, p. 311. — Pileo 550

glabro, flavo, molli, concentrice sulcato, margine tenui, incurvato; poris minutis, angulosis, dissepimentis integris et parum crassis; tubulis brevibus; sporis flavidis, ovoideis  $2,5-3 \approx 1,5$ .

*Hab.* ad ramulos emortuos, Tonkin (Bon). — Pileus 2-3 cm. lat.; stipes  $\frac{1}{2}$  cm. long. *P. pectinato* affinis.

21. **Polyporus cæzio-flavus** Pat. Bull. Soc. Myc. 1892, pag. 114. — 551

Pileo carnosissimo, triquetro, inferne decurrenti-marginato, albido flavescenti, margine acuto, inflexo, excedenti; hymenio e plano concavo postice cinereo-cærulescenti, antice flavo-livido; poris vibrantibus minutissimis, angulosis, livido-cinereis, dissepimentis tenuibus, acutis, mollibus; sporis albis, cylindraco-curveis  $10-10,5 \approx 3-4$ .

*Hab.* ad ligna emortua, Æquatoria. — Pileus 1-4 cm. lat. *P. lacteo* affinis.

22. **Polyporus fusco-cinereus** Pat. Bull. Soc. Myc. 1892, p. 113. — 552

Pileo convexo, undulato-repando, inæquali, cinereo-rufescenti nitido, postice subglabro, ad marginem nigro-zonato, contextu carnosissimo-fibroso, supra cinereo, subtus albido; hymenio plano-concavo, ochraceo-albido v. rufulo, subumbrino; poris minutis rotundis, æqualibus, dissepimentis crassis, integris.

*Hab.* ad truncos, Æquatoria. — *P. adusto* et *P. fumoso* affinis.

23. **Polyporus cervinus** Qué. Champ. Jura Suppl. XVIII, p. 6. t. III, 553

f. 2 (*Leptoporus*). — Pileo expanso reflexo, tomentoso, cremeo, margine albo-cremeo; contextu molli, albido, vitreo-zonato; tubulis tenuibus, albo-cremeis; poris rotundatis, pentagonis, pruinosissimis, albo-glauciscentibus; sporis ovoideo-sphaericis, hyalinis, 6  $\mu$ . diam.

*Hab.* ad truncos, Fontainebleau Galliae. — Pileus 3-6 cm. latus. Affinis *P. testaceo*.

24. **Polyporus fuscopellis** Qué. Champ. Jura Suppl. XVIII, pag. 7, 554

t. III, f. 35 (*Caloporus*). — Pileo spongioso, hirsuto, umbrinofusco, dimidiato-sessili, intus pallido; poris majusculis, subangulosis, profundis, pallidis.

*Hab.* in Turenna Galliae — Affinis *P. Hausmanni* Fr.

25. **Polyporus latisporus** Britz. Hym. Südbayer IX, p. 20, f. 124. 555

*Hab.* ad truncos Bavariae australis. — Ochraceo-flavidus obscurius squamulosus; sporæ  $14 \approx 4$ .

26. **Polyporus conspicabilis** Britz. Hym. Südbayer V, p. 274, f. 69, 556  
VIII, p. 13, f. 106.

*Hab.* in silvaticis Baviaræ australis. — Ardesiaco-cinereus: stipes albidus; sporæ 5-6  $\approx$  3-4.

27. **Polyporus Clusianus** Britz. Hym. Südbayer X, p. 174, f. 158. 557

*Hab.* ad vias, verisimiliter ad caudices, pr. Augsburg Baviaræ australis. — Ochraceo-isabellinus, fuligineo-squamosus; sporæ 14-16  $\approx$  4. *P. squamoso* affinis. Edulis.

28. **Polyporus punctisporus** Britz. Hym. Südbayer IX, p. 20, f. 140. 558

*Hab.* ad terram in silvis Baviaræ australis. — Pallide brunneus v. flavo-brunneus, centro obscurior; sporæ 4  $\mu$ . diam. *P. roi-lopodi* affinis.

29. **Polyporus rubro-maculatus** Britz. Hym. Südbayer VIII, pag. 13, 559 f. 118.

*Hab.* ad truncos Baviaræ australis. — Albo-rubescenti, rubro-maculatus; sporæ 4,5  $\approx$  1-1,5. *P. ciliatulo* affinis.

30. **Polyporus macrosporus** Britz. Hym. Südbayer X, p. 174, f. 176. 560

*Hab.* ad truncos vetustos Baviaræ australis. — Brunneo-flavus dein griseus; sporæ 10  $\approx$  6-7. *P. adusto* affinis.

31. **Polyporus stillativus** Britz. Hym. Südbayer IX, p. 20, f. 124. 561

*Hab.* ad truncos Baviaræ australis. — Aureo-brunneus margine pallidior; sporæ 10-12  $\approx$  2-3. *P. Spongiae* affinis.

32. **Polyporus cæsius-coloratus** Britz. Hym. Südbayer IX, pag. 20, 562 f. 145.

*Hab.* ad truncos pineos Baviaræ australis. — Brunneus v. brunneo-cæsius, albido-marginatus; sporæ 5-6  $\approx$  0,7-1 curvæ. *P. cæsius* affinis.

**LACCOCEPHALUM** Mac Alpine et Tepper A new Austral. stone-making-fungus p. 166 tab. X (Etym. *laccos* fossa, et *cephalos*). — Pileus lignescens, centrali-stipitatus, supra fossulato-alveolatus. Hymenium inferum e tubis cylindræis, stipatis ab hymenophoro non separabilibus constans. Sporæ magnæ, subglobosæ, coloratæ.

1. **Laccocephalum basilapidoides** Mac Alpine et Tepp. l. c. — Solita. 563  
rium; pileo 7-8 cm. lato, suborbiculari, expanso, medio concavo, brunneo-fulvo, fossulis e centro pilei ad marginem sensim amplioribus, inæqualiter ovatis; substantia interna albida, immutabili, hymenio griseo-fulvo, poris inæqualibus ore subrotundis v. ovatis; sporis echinulatis, aurantiis, 44-50  $\mu$ . diam.; stipite e basi maxime incrassata lapidescenti, ferruginea (arena mycelio concreta) oriundo, cylindræo-compresso 12-15 mm. cr., 2 cm. long.

*Hab.* in sabulosis Australiæ meridionalis (MOLINEUX). — Quoad

basim lapideam *Polyporum Tuberastrum (pietra fungaia)* et *P. tumulosum* in memoriam revocat.

**FOMES** Fr. — Syll. VI, p. 150, IX, p. 173.

1. **Fomes oleicola** P. Henn. Fung. Afric. p. 343. — Pileo lignoso, 564  
durissimo, triquetro e stratis annosis, demum rimosis, subumbrinis,  
sulcato, velutino-pruinoso, nigro-olivaceo, contextu lignoso; poris  
rotundatis, minimis; sporis ellipsoideis, flavo-brunneis, 1-guttatis,  
10-11  $\approx$  6-7.

*Hab.* ad truncum Oleæ chrysophyllæ, Ssaber Abyssiniæ  
(G. SCHWEINFURTH). — *F. rimoso* peraffinis sed sporis diversus.

2. **Fomes Ellisianus** Anders. Bot. Gaz. 1891, p. 113, t. XII. — Pileo 565  
dimidiato, unguiformi, radiato-rugoso zonatoque ex albo-pulveru-  
lento flavescenti-glabro, rimoso. dein lignicolori; margine subobtusio  
v. rotundo; poris subcylindræis margine subacuto ex albido cre-  
meo v. pallide flavescentibus, fragilibus, stratosi, totum fere pileum  
formantibus; sporis hyalinis 5-6  $\approx$  4-5.

*Hab.* ad truncos vivos Shepherdia argentæ in Montana bor.  
Amer. bor. — Pileus 5-6 cm. lat. — *Fr. fraxinophilo* Peck similis.

3. **Fomes bambusinus** Pat. Bull. Soc. Myc. 1891, p. 101 (*Polyporus*). 566  
— Pileo dimidiato, circulari, concentricè cristato, villosio, postice  
decurrente, ochraceo-brunneo, margine acuto; poris minimis rotun-  
datis, dissepimentis tenuibus, integris; tubulis concoloribus, brevi-  
bus; sporis ovoideis, levibus, hyalinis 5  $\approx$  4.

*Hab.* ad culmos vetustos Bambusæ, Tonkin. — Pileus 2-3 cm.  
lat. Adsunt quoque formæ *nodulosa* et *resupinata*. — *P. pecti-*  
*nato*, *P. conchato*, *P. salicino* affinis.

4. **Fomes Baccharidis** Pat. Bull. Soc. Myc. 1893, p. 129 (*Polyporus*). 567  
— Pileo suberoso-lignoso, turbinato-conico, vertice adfixo, pen-  
dulo, pectinato-sulcato, e flavo velutino-molli cinnamomeo-nigri-  
canti, glabro induratoque; tubulis longissimis, tenuissimis, strato-  
sis, fulvo cinnamomeis; hymenio fusco-purpurascenti; poris rotun-  
dis, minutis, dissepimentis tenuibus, integris; sporis hyalinis 6-  
7  $\approx$  4-5. — Var. pileo resupinato.

*Hab.* ad truncos Baccharidis oblongifoliae, Æquatoria. — *P. pe-*  
*ctinato* et *P. conchato* affinis. Pileus 5 cm. alt., 3-5 cm. diam.

5. **Fomes Alni** Sorok. Paras. Kauk. p. 142, t. XXII, f. 230 (*Polypo-* 568  
*rus*). — Pileo unguiformi, stratu exteriori suberoso, sordide ro-  
seo, a contextu difficile secedenti; hymenio albo, poris tenuibus,  
pluristratoso; sporis ob specimen vetustum non visis.

*Hab.* ad truncos Alni glutinosæ, Borshom reg. Caucasicae.  
— Pileus 18-19 cm. lat.

6. **Fomes laccatus** (Kalchbr.) Sacc. *Polyporus* Kalchbr. et Wettst. 569  
in Bot. Zeitschr. 1885, p. 81. — Pileo durissimo, convexo dimidiato-sessili, horizontali, supra concentrice furcato, irregulariter undulato-tuberculato, glabro, incrustato, cupreo, rarius in speciminibus vetustis fusco, valde laccato-nitenti, intus densissime suberoso-fibroso, lento, margine sterili, integro, nitidissimo, rubido; poris tenuibus ore minimo ambitu orbiculari, pulcre ochraceo; sporis hyalinis, subrotundis.

*Hab.* ad truncos vivos Cerasi in Austria infer. — Pileus 10-20 cm. diam.; sporæ 3-5  $\mu$ . long. v. 2-4  $\mu$ . diam.

7. **Fomes (Ganoderma) Emini** P. Henn. F. Afr. II, p. 24, tab. I, 570  
f. 5. — Pileo suberoso crasso, mesopode, convexo, obsolete zonato v. sulcato, rugoso, alutaceo v. flavo-ochraceo, vix laccato, margine acuto, inflexo; stipite longe radicato, basi incrassato, crustaceo-laccato, atro-sanguineo, sæpe flexuoso; tubulis alutaceis; poris minutis, punctiformibus, rotundatis v. angulatis v. elongatis, ore integro cinereo; sporis magnis, ovoideis v. ellipsoideis, fusco-brunneis, 20-28  $\approx$  15-18.

*Hab.* ad Faschani et pr. Pangani Africae orient. (STUHLMANN).  
— Pileus usque ad 6 cm. diam., 18 mm. cr.; stipes usque ad 16 cm. long., 2 cm. cr.; tubuli usque ad 15 mm. long. *F. lucido* valde affinis.

8. **Fomes (Ganoderma) ochrolaccatus** (Mont.) Pat. — Syll. II, p. 173. 571  
— var. **Cornucopiæ** Henn. F. Novo-guin. p. 7. — Pileo suberoso-lignoso, stipitato, curvato-nutanti, forma cornucopiæ, crustaceo-laccato, rufo-brunneo, concentrice sulcato, zonis solitariis, crassioribus, flavis, margine acuto; stipite brevi, in pileum producto; tubulis elongatis, brunneis, substantia fusco-ochracea; poris hexagono-rotundatis, amplis, ore obtuso griseo-cinnamomeo; sporis ovoideis fusco-brunneis, verruculosus 25-30  $\approx$  18-22.

*Hab.* ad truncos pr. Kelana Novæ Guineæ (L. KARNBACH).

9. **Fomes (Ganoderma) Preussii** P. Henn. Fung. Afric. p. 342. — 572  
Pileo lignoso-coriaceo, duro, horizontali, umbilicato, concentrice sulcato, radiatim striato, undulato-lobato, margine acuto, adusto, crusta tenui-rigida, obscura, brunneo-nigra tecto; poris rotundis, integris, minimis, tubulis elongatis, pallido-alutaceis; stipite centrali, basi tuberoso, rigido, inæquali, crusta nigro-brunnea tecto; sporis globosis, levibus, flavo-pallidis 7-9  $\mu$ . diam.



*Hab.* ad truncos pr. Barombi-station, Kamerun Africæ (PREUSS).

— Pileus 7 cm. diam.; pori 2 mm. long.; stipes 4 cm. long., 5-7 mm. (basi 2 cm.) cr.

10. **Fomes (*Ganoderma*) albo-cinctus** Pat. Journ. de bot. 1894, p. 355. 573

— Pileo suberoso-lignoso, orbiculari, convexo, concentrice sulcato, ambitu sinuato, opaco, pruinoso, luride brunneo, albo-marginato, sæpe rubro v. atro-violaceo, hinc inde maculato, 5-8 cm. lat., 1 cm. cr., intus fulvo-tabacino, cute crustacea, tenui tecto; poris albidis, minutis, subrotundis; stipite obliquo, puncto dorsali adfixo, pruinoso, fusco-brunneo, cylindraceo-toruloso, 2-4 cm. long., vix 6 mm. cr.

*Hab.* ad truncos Kitabi, Congo (LECOMTE). — *F. testaceo* affinis sed albo-marginatus.

11. **Fomes (*Ganoderma*) resinaceus** Boud. — Sacc. Syll. IX, p. 179. 574

— var. **Martellii** Bres. F. Trid. II, p. 31, t. 137. — Pileo semi-orbiculari, convexo-subapplanato, levi, sessili, margine crasso, involuto, concentrice sulcato, crusta nigra, vernice luteo-olivacea, demum evanida tecta, prædito; tubulis rufescenti-umbrino, plus minusve elongatis; poris concoloribus, mediocribus, subangulatis; sporis obovatis, luteolis 10-12  $\approx$  7-8.

*Hab.* ad truncos *Quercus Ilicis* in Etruria (MARTELLI). — Pileus 20-30 cm. lat. A typo differt pileo levi, margine tantum sulcato, crusta olivacea tubulisque et substantia magis umbrina.

**POLYSTICTUS** Fr. — Syll. VI, p. 208, IX, p. 181.

1. **Polystictus nigrescens** Cooke Grev. XX, p. 90. — Pileo submem. 575

branaceo, plano, reniformi, levi, glabro 5-10 cm. diam., fuligineo-nigrescenti, postice in stipitem brevem disciformi producto, margine acuto, subfissili, poris brevissimis, minutis, rotundatis, æqualibus, fusco-nigricantibus; contextu pallido.

*Hab.* ad truncos in Brasilia (GLAZIOU).

2. **Polystictus armenicolor** Berk. et Curt. Fungi Cub. n. 270. — Pi. 576

leo tenui, subcoriaceo, flabelliformi, in stipitem spurium attenuato, zonato, velutino, interstitiis lineatis; hymenio alutaceo; poris minutis dissepimentis tenuibus dentatis.

*Hab.* ad ligna emortua, Cuba.

3. **Polystictus silaceus** (Wettst.) Sacc. *Polyporus* Wettst. Bot. Zeitschr. 577

1885, p. 152. — Pileo dimidiato-sessili, plano, sæpe pluribus con-natis, altero super alterum imbricato-sessilibus ceraceo-fibrosis, supra rubro-fuscis, glabris, tuberculato-zonatis, decorticatis, margine

ochraceo glabro v. tenuissime puberulo, subacuto etiam in parte inferiore sterili; poris tenuibus ore suborbiculari magis minusve obliquis, luteo-ochraceis, 1-2 mm. long.; sporis ovatis, hyalinis, levibus, 4  $\mu$ . long.

*Hab.* ad ligna putria in fodina plumbea, Deutsch-Feistritz Stiræ. — Pileus 3-7 cm. long., 4-10 cm. lat.

4. **Polystictus luteus** Bl. et Nees — Syll. VI, pag. 218. — var. **bo-** 578  
**kobensis** P. Henn. F. Afr. II, p. 27. — Pileo coriaceo-papyraceo, tenui, flabelliformi, levi, glabro, nitenti, radiato-striato sulcatoque, zonato, flavo-badio, margine tenui, inciso-repando v. crenato, pallidiore, sterili; stipite laterali, lato, compresso, brevi; hymenio alutaceo v. ochraceo, ruguloso; poris subrotundis v. elongatis, acutangulis, laceris, acie denticulatis, decurrentibus; sporis subglobosis, levibus, hyalinis 4-5.

*Hab.* ad truncos ad lacum Victoria Njansa pr. Bukoba Africæ centr.

5. **Polystictus Euphorbiæ** Pat. Champ. Asiat. p. 1. (*Polyporus*). — 579  
Pileo rigido, plano, suberoso-lignoso, crassiusculo, suborbiculari, concentrice sulcato, crustula tenui, fragili, atro-brunnea, glabra, pruinosa, margine acuto, rigido, pallidiore; stipite laterali, crasso, brunneo-atro, ferrugineo-pulverulento, rugoso; hymenio ochraceo-olivaceo dein brunneo, convexo-plano; poris minutis, angulosis, dissepimentis tenuibus, integris, umbrino-cinnamomeis; sporis fuscis 5 = 4.

*Hab.* ad truncos *Euphorbiæ longanæ* Tonkin (Bon). — Pileus 8-15 cm. lat.; stipes 1-3 cm. long., 1,5-3 cm. cr. — *P. triquetro* affinis.

6. **Polystictus crocatus** Fr. Epier. p. 477, Nov. Sym. p. 91, Sacc. 580  
Syll. VI, p. 275, nec Ray. F. Amer. ed. Cooke, n. 708, nec n. 707. — \**P. sibiricus* Sacc. Myc. Sib. II, n. 1. — Pileo (hymenioque) paullo crassiori, superne pallidiore nec non inæqualius et parcius sulcato-zonato; sporis (in typo non visis) globoso-ellipsoideis sæpe inæquilateris, 3-3,5 = 2-2,5 dilutissime cinnamomeis.

*Hab.* ad truncos Rosæ Gmelini pr. Minussinsk Sibiricæ (MARTIANOFF).

7. **Polystictus sanguineus** (Linn.) Meyer — Syll. VI, p. 229. — var. 581  
**albo-zonatus** P. Henn. F. Afr. II, pag. 26. — Pileo flabelliformi, stipitato, membranaceo-coriaceo, tenui, glabro, nitido, miniato, zonato, zonis albidis; hymenio miniato; poris rotundis.

*Hab.* ad truncos in Madagascar pr. Ankoraka.

8. **Polystictus albidus** Massee Journ. of Bot. 1892, p. 162. — Pileo 582  
coriaceo, subtenui, applanato, semiorbiculari v. elongato, basi cuneato-flabellari, ambitu acuto, repandulo; superne glabriusculo, scruposo-ruguloso et passim noduloso, leviter concentrice zonato; contextu albido; hymenio stramineo; poris breviusculis, minimis, rotundis, dissepimentis tenuibus; sporis hyalinis, ellipsoideis, levibus,  $6 \approx 4$ .

*Hab.* ad truncos vetustos, Bonhomme Valley, India. — *P. occidentali* affinis.

9. **Polystictus Spegazzini** Bres. n. sp. in litt. *Polyporus Drummondii* 583  
Speg. F. Guar. I, p. 21, (non Klotzsch). — Pileis coriaceis, cæspitosis, dimidiatis, applanatis, postice effuso-decurrentibus, radiatim fibroso-squamosis, margine recto, acuto fimbriato-ciliato, e sordide albo alutaceis, 2-3 cm. latis,  $1\frac{1}{2}$  cm. antice productis, tubulis brevibus, albidis dein luride alutaceis; poris rotundato-angulatis vel oblongis, mediocribus, acie subfimbriata, acuta; substantia coriaceo-membranacea, concolore.

*Hab.* ad truncos emortuos prope Guarapi. — Species *Pol. Peradeniæ* Berk. valde affinis, a quo tamen e speciminibus siccis videtur diversa: a *Tramete dermatode* Lév. vero prorsus aliena.

10. **Polystictus rugulosus** Lasch in Rab. F. Eur. 16. — Pileo suberoso 584  
coriaceo, leviter convexo, velutino, magis minusve zonato, radiatim ruguloso, subflavescenti, fusco, subtus plano, postice crassiusculo, margine acuto; poris minutis subrotundis, albo-pallescentibus.

*Hab.* ad truncos in Germania. — *P. velutino* affinis.

11. **Polystictus nigricans** Lasch Rab. F. Eur. 15. — Pileo suberoso 585  
coriaceo, tenuiusculo, utrinque plano, velutino, zonato, nigricanti, opaco, margine tenui, albo; poris minutis e subrotundo-obtusangulis albo-pallentibus.

*Hab.* ad truncos in Germania. — *P. velutino* affinis.

12. **Polystictus purpureo-badius** Pat. Bull. Soc. Myc. 1892, pag. 53 586  
(*Polyporus*). — Pileo sessili, dorsualiter et postice inserto, basi decurrente in disco contra stipitem applicato, sicco, coriaceo, flexibili, tenui, semiorbiculari et regulari v. antice elongato, flabelliformi, flavo-brunneo, concentrice zonato, velutino, margine pallido, albido, tenui, obtuso; poris regularibus, rotundatis, dissepimentis crassis, obtusis, integris.

*Hab.* ad truncos, Brazzaville, Congo. — *P. caperato* Mont. affinis.

13. **Polystictus Dybowski** Pat. Bull. Soc. Myc. 1892, p. 53, t. VII, 587

f. 6 (*Polyporus*). — Pileo umbrino, dimidiato, convexo, antèrius incurvato, posterius decurrenti, regulari, striguloso, margine obtuso; contextu castaneo, duro, fibroso, basi solido, paullatim et omnino fibroso, primo albido dein rufo et demum peripherice umbrino; poris rotundis v. angulosis, dissepimentis tenuibus, aculeatis; tubulis brevibus, lignosis, albidis.

*Hab.* ad ligna emortua, Congo. — Pileus 5-8 cm. lat., 5 cm. alt. *P. Monti-Veneris* affinis.

14. *Polystictus cotoneus* Pat. et Hariot Bull. Soc. Myc. 1893, p. 208 <sup>588</sup> (*Polyporus*). — Pileis orbicularibus imbricatis v. liberis, postice scutato-adfixis, flexuoso-coriaceis, tenuibus, albido-sublutescentibus, margine integro patenti, acuto, obscure zonatis, cotoneis, carne tenui, floccosa, candida, hymenio concolori; poris minutissimis, integris, dissepimentis crassis, obtusis.

*Hab.* ad truncos Congo. — *P. velutino* affinis.

## MUCRONOPORUS E. et E. — Syll. IX, p. 188.

1. *Mucronoporus tenuis* (Karst.) Sacc. Syll. IX, p. 188, *Chortoporus* <sup>589</sup> *tenuis* Karst. Hedw. 1890, p. 148. — Pileo effuso, immarginato, laxè adnato, lento, ambitu e byssino membranaceo, albido; poris rotundis, exiguis, albis, mox flavescentibus demum melleo-flavis, nonnunquam in fulvum v. ferrugineum vergentibus, dissepimentis subdenticulatis, nonnunquam laceris.

*Hab.* ad ligna mucida Populi tremulæ pr. Mustiala. Fenniae. — *Poriae laceræ* Karst. proximus.

2. *Mucronoporus fulvidus* Ell. et Ev. Proc. Acad. Phil. 1894, p. 333. <sup>590</sup> — Resupinatus, adnatus, flavo-fulvus, margine velutino-tomentoso, angusto, adnato; poris brevibus, vix 1 mm. long., rotundis, subiculo vix ullo suffultis; sporis hyalinis, subglobosis 2  $\mu$ . diam, spinulis pororum sat copiosis pallidis 25-35  $\approx$  3-4.

*Hab.* in ramis Alni, Berkeley, Cala, Amer. bor. (BLASDALE). — Habitus *Poriae inermis*.

## PORIA Fr. — Syll. VI, p. 292, IX, p. 187.

1. *Poria glauca* Pat. Journ. De Bot. 1891, pag. 312. — Pileo tenui, <sup>591</sup> late expanso, resupinato, glaucescenti v. violaceo, margine tenui, albido, evanido; poris angulosis v. rotundatis, dissepimentis integris; tubulis brevissimis; sporis ovatis, albidis, levibus 4  $\approx$  3.

*Hab.* ad cortices putrescentes, Tonkin. — Pileus 8-15 cm. alt. *P. Fuligini* B. et Br. et *P. Ravenalæ* B. et Br. affinis.

2. *Poria crocata* Pat. Journ. de bot. 1894, p. 220. — Tota resupinata, 10-20 cm. longa membranâ coriacea tenui nudâ cincta; poris ex albido croceis, angulosis, centro 1 cm. longis; sporis non visis.

*Hab.* in truncis putridis *Quercus Mirbeckii* El Feidja Tunisiæ.

3. *Poria albo-cincta* Cooke et Mass. Grev. XX, p. 106. — Tota resupinata, atro-cinerea demum rimoso-fatiscens; margine lato, niveo, pulverulento, tenui; tubulis circ. 1 mm. longis; poris minutissimis, inconspicuis; sporis ellipticis,  $4 \approx 2$ .

*Hab.* ad truncos in insula St. Vincent.

4. *Poria lucens* (Wettst.) Sacc. *Polyporus* Wettst. Bot. Zeitschr. 1885, p. 151. — Pileo resupinato expanso plano v. subconvexo, carnosocoriaceo, ligno non immerso, margine glabro subincrassato, fusco-luteo; hymenio sulphureo, sicco sæpe subfusco; poris minimis densis ore ambitu orbiculari v. obliquo; sporis ovatis 5  $\mu$ . long.

*Hab.* ad ligna putria in fodina plumbea, Deutsch-Feistritz Stiria. — Pileus 2-4 cm. lat., 2-7 mm. cr.

5. *Poria inermis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 322. — Resupinata, adnata, seriata, flavido-brunnea, margine tenuiore, pallide flavo, adnato; poris minutis, rotundis; sporis subglobosis 4-5  $\mu$ . diam. ferrugineis.

*Hab.* ad truncos dejectos varios, Amer. bor. (Michigan, Canada, Nebraska, Louisiana). — Pileus 15 cm. lat., 2-4 mm. cr.

6. *Poria labyrinthica* Karst. in Hedw. 1891, p. 298. — Pileo resupinato, elongato-effuso v. ambienti, immarginato, adulto facile secedenti, suberoso, tenui v. tenuissimo, obscure ferrugineo, mycelio ferruginascenti; poris minutissimis, elongatis, flexuosis, labyrinthicis rarius rotundatis, dissepimentis sat tenuibus, margine inæqualibus, ferrugineo-fuscis demum fuscis, intus cano-pruinosis, demum stratosi; sporis 3-4  $\approx$  1-1,5.

*Hab.* ad ligna abiegna, pr. Mustiala Fennia.

7. *Poria subargentea* Speg. F. Guar. nonnulli n. 12, p. 6. — Pileo resupinato-effuso, undulato-rugoso, subcrustaceo-rigidulo, arcte adnato, vix albo-marginato; hymenio cinereo-argenteo; poris minutis, constipatis, angulosis, dissepimentis acie integris.

*Hab.* ad cortices dejectos putrescentes in silvis pr. Yaguaron. Pileus 5-10 cm. long., 2-8 cm. lat. *P. sectori* Fr. et *P. ludenti* Speg. affinis.

8. *Poria albo-atra* Karst. Hedw. 1892, p. 293 (*Physisporus*). — Pi-

leo effuso, firmo, adnato, albo, contextu fibroso; poris exiguis, rotundis, obtusis, integris sat longis, albis, siccitate nigricantibus; sporis sphæroideis, 4-5  $\mu$ . diam.

*Hab.* in regione Viburgensi Fennicæ.

9. *Poria albo-lilacina* (Karst.) Sacc. *Physisporus* Karst. Hedw. 1892, 599 p. 220. — Pileo mucedineo tenuissimo, crustaceo-adnato, immarginato, albo, ambitu contiguo subinde subtiliter fibrilloso; poris curtis, rotundis v. variis, sæpe irregularibus et obliquis, mediis, lilacinis; sporis oblongo-ellipsoideis, rectis, rarius curvulis, hyalinis, 4-6 = 1,5-2.

*Hab.* ad lignum mucidum pini in regione Mustialensi Fennicæ.

10. *Poria polyspora* (Karst.) Sacc. *Sarcoporia* Karst. Hedw. 1894, 600 pag. 15. — Pilco tenui, adhærenti, levi, oblongato v. rotundato, glabro; poris stipatissimis, minutissimis, rotundatis, subæqualibus, albis, dein lutescentibus, tactu brunnescentibus, dissepimentis ceraceo-carnosis tenuissimis, mox laceris; sporis numerosis 3-4 = 2,-2,5.

*Hab.* ad virgulta abietina Fennicæ. — Pori 2-3 mm. alt. — Sic auctor definit genus *Sarcoporia* Karst. l. c.: pileus resupinatus, effusus, gelatinoso-membranaceus, læticolor; pori carnosuli, molles, læticolores; cystidia nulla; sporæ ellipsoideo-sphæroideæ, leves, continuæ.

11. *Poria confluens* (Karst.) Sacc. *Podosporia* Karst. Hedw. 1892, 601 p. 297. — Pileo resupinato, concavo-plano v. subcupulato, membranaceo, tenuiter adpresse sericello, confluenti; stipite tuberculi-formi, fusco, filamentis fusco-nigricantibus obsesso; poris rotundis, sat curtis, minimis, dissepimentis tenuibus, acie laceris.

*Hab.* in regione Viburgensi Fennicæ. — Genus *Podosporia* sic auctor l. c. definit: pileus resupinatus, membranaceus, læticolor, substrato tuberculo centrali, stipitiformi adfixus; hymenio poroso.

12. *Poria onusta* (Karst.) Sacc. *Trechispora onusta* Karst. Hedw. 1890, p. 147. — Pileo effuso laxè adhærenti, molli, arachnoideo e flavido vitellino; poris rotundis v. angulatis, inæqualibus, exiguis, dissepimentis tenuibus, mollibus denticulatis; sporis sphæroideis 4.  $\mu$ . diam., echinulatis.

*Hab.* ad lignum mucidum *Salicis capræ* prope Mustiala Fennicæ. — Sic auctor definit genus *Trechispora* Karst. Hedw. 1890, p. 147: pileus resupinatus effusus; pori matrici v. mycelio arachnoideo-bombycino pertenui, molli ex hyphis tenerimis constante impositi, ceraceo-membranacei, contextu subindistincto, læ-



ticolores; sporæ sphæroideæ, echinulatæ, hyalinæ; cystidia nulla.  
— A *Poria typica* contextu sporisque echinulatis distat.

**TRAMETES** Fr. — Syll. VI, p. 334 et IX, p. 194. — Confer generis dispositionem et emendationes apud Cooke Grev. XIX, p. 98.

1. **Trametes adelphica** Cooke Grev. XIX, p. 103. — Pileo suberoso, 603  
subtenui, reniformi, applanato, vix zonato, nigro-fusco, 3-10 cm.  
diam., setis rigidis, compressis, atro-fuscis, strigoso, margine acuto,  
glabrescenti, intus ferrugineo-fusco; poris profundis ad 1 cm.  
longis, subhexagonis, intus glaucescentibus 1 mm. diam.

*Hab.* ad truncos Madagascar, Isle of Reunion. — *Hexagonia strigosa* Cooke in Herb.

2. **Trametes Burchelli** Berk. in Herb., Grev. XIX, p. 102. — Pileo 604  
suberoso-molli, velutino-villoso, convexo, lateraliter extenso, con-  
fluenti, umbrino-fulvo, pallescenti 7-12 cm. long., 2-3 cm. lat., sæpe  
scruposo, contextu umbrino; tubulis elongatis 1 cm.; poris angu-  
latis, magnis 1-2 mm. pallide umbrinis, dissepimentis crassis.

*Hab.* ad truncos in Brasilia, Pegu.

3. **Trametes gausapata** Berk. et Rav. in Herb., Grev. XIX, p. 102. 605  
— Pileis basi effusis, reflexis, plerumque resupinatis confluentibus-  
que, velutinis, zonatis, tabacinis, coriaceis 2-3 cm. lat. contextu fu-  
sco; hymenio pallide umbrino; poris demum angulatis, subacutis  
 $\frac{1}{2}$  mm. diam.

*Hab.* ad truncos Amer. bor. Madagascar, Australia.

4. **Trametes Sycomori** P. Henn. Fungi Afr. I, p. 347. — Pileo sessili, 606  
compacto, duro, applanato-gibboso, pulvinato, dimidiato, velutino,  
obsolete zonato, verrucoso-tuberculato, albo-flavescenti; poris ad  
marginem minutis, subrotundis, integris, ad medium oblongatis, si-  
nuoso-labyrinthiformibus, inæqualibus, pallido-ligneis; sporis sub-  
globosis, fusco-brunneis, levibus, 10-11 = 7-8.

*Hab.* ad truncos emortuos Fici Sycomori, Wolledscke, Dschebel-Mechan Africae (G. SCHWEINFURTH). — Pileus 9 cm. long., 16 cm. lat., 2-7 cm. cr. *Tr. gibbosæ* peraffinis.

5. **Trametes emarginata** Pat. et Hariot, Bull. Soc. Myc. 1893, p. 208. 607  
— Pileo dimidiato-sessili, convexo, scruposo, velutino, margine in-  
flexo nec sulcato nec zonato, albido-fulvello, hymenio concolori  
concavo, undique fertili; poris amplis, angulosis; dissepimentis cras-  
sis, acie dentata.

*Hab.* ad truncos Congo. — Pileus 13 cm. lat., 6 cm. alt. *T. socotranæ* affinis.

6. **Trametes Stuhlmanni** P. Henn. F. Afr. II, p. 29. — Pileo sub- 608  
sessili, semiorbiculari, suberoso, primo velutino-tomentoso, ochra-  
ceo dein subnudo, dense sulcato-zonato, cinnamomeo, zonis seri-  
ceis pallidioribus, margine acuto; alveolis rotundato-angulatis, in-  
tus ochraceo-tomentosis et setulosis, acie plus minus incrassatis,  
cinnamomeis.

*Hab.* ad arbores, Ukami pr. Mrogoro Afr. orient. (STUHLMANN).

— Pileus 5-6 cm. long., 5-11 cm. diam.

7. **Trametes retirugis** Bres. Contr. Fl. Afr. orient. pag. 6, t. VIII, 609  
f. 6. — Pileo tuberoso-coriaceo, sessili, late flabelliformi-expanso,  
postice cuneato adnato, glabrato, azono, fusco-livido demum luride  
alutaceo, late et irregulariter rugoso-reticulato, intus alutaceo; tu-  
bulis concoloribus; poris amplis, elongatis v. subpentagonis, acie  
demum lacerato-fimbriata, dissepimentis crassis; sporis hyalinis,  
obovato-elongatis v. subcylindraceis, 13-18  $\approx$  6-9.

*Hab.* ad truncos, Scioa. — *Hexagonia glabrata* Lév. similis.

8. **Trametes Dickinsii** Berk. in Herb., Grev. XIX, p. 100. — Pileo 610  
suberoso-lignoso, semiorbiculari, pruinoso, cervino 8  $\approx$  5 cm., sul-  
cato-zonato, subtiliter rugoso demum glabrato, contextu cervino,  
roseo-tincto; poris subangulatis, mediis  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., dissepi-  
mentis crassiusculis, rigidis.

*Hab.* ad truncos in Japonia.

**HEXAGONIA** Fr. — Syll. VI, p. 356, IX, p. 198. — Cfr. Cooke, Grev.  
XIX, p. 103.

1. **Hexagonia chartacea** Pat. et Hariot, Bull. Soc. Myc. 1893, p. 209. — 611  
Pileo semiorbiculari, sessili, plano, margine acuto, integro, sinuato,  
involuta, coriaceo-membranaceo, flexili, nitenti badio, glabro, ad  
insertionem scruposo-caperato, zonis crebris notato; alveolis am-  
plis, angulosis, intus dense concentrice sulcatis setulosisque, acie  
integra, dissepimentis chartaceis.

*Hab.* in regione Congoana. — Pileus 12 cm. lat., 6 cm. long.

*H. obversa* Pat. affinis.

2. **Hexagonia Sacleuxii** Har. Journ. de Bot. 1892, pag. 19. — Pileo 612  
crassiusculo, subreniformi, convexo, margine acuto, zonato, subsul-  
cato, scruposulo, albo-griseo, glabro, nitidulo; poris amplis profun-  
dis, polygonis, dissepimentis sat tenuibus, acie integra obtusiusculis  
intus pruinoso-cinereis, concentrice zonatis, peripherice rotundatis,  
superficialibus, minutis.

*Hab.* ad truncos Mangiferæ, in Zanzibar Africæ (SACLEUX).

— *H. polygrammæ* Mart. affinis.

3. *Hexagonia discopoda* Pat. et Hariot, Bull. Soc. Myc. 1893, p. 209. 613

— Pileo-suborbiculari, postice in stipitem brevem, tenuem, discoideum, atro-rubrum attenuato, subplano, margine acuto, subrepando, membranaceo, tenui, glabro, nitenti-castaneo, postice maculato, zonis latis, postice flabellatim radiato, antice sublevi; poris tenuibus glabris, angulosis rotundisve, acie integra, obtusiuscula.

*Hab.* in regione Congoana. — Pileus 10-14 cm., lat. 8-10 long.

4. *Hexagonia obversa* Pat. Rev. Myc. 1891, p. 137. — Pileo sessili, 614

dimidiato, plano, semiorbiculari, glabro, tenuiter radiato-rugoso, concentrice sulcato, margine integro, acuto; alveolis cinnamomeis, glabris, subhexagonalibus, dissepimentis tenuibus papyraceis, acutis, integris.

*Hab.* ad truncos, Fulahs Djallonka Africæ occid. — Pileus 6-12 cm. lat., 3-6 cm. alt.

5. *Hexagonia Dybowski* Pat. Bull. Soc. Myc. 1892, p. 54. — Pileo 615

sessili, dimidiato et semiorbiculari v. subrotundato, margine tenuissimo, acuto, lacerato-fimbriato, superne plano, pallido, alutaceo-flavo, radiatim cristato, concentrice zonato, inferne flavo-pallido, plano v. decurrenti; alveolis hexagonalibus, dissepimentis rigidis, acutis, integris v. dentatis.

*Hab.* ad ramulos emortuos, Congo. — Fungus 5-20 cm. alt.

6. *Hexagonia velutina* Pat. et Hariot, Bull. Soc. Myc. 1893, p. 209. 616

— Pileo suborbiculari, postice in stipitem brevem, crassum, discoideum attenuato, subplano, margine recto, acuto, integro, membranaceo, tenui, subrepando, cinereo fusco-vibranti, zonis creberrimis, strictis, levibus notato, pruina velutina, fusca, postice præsertim consperso; hymenio cinereo ad marginem sterilem dilutiori; poris intus glaucis, glabris, angulosis, acie integra, obtusa; contextu floccoso, tenui, obscure ferrugineo.

*Hab.* in regione Congoana. — Pileus 10-16 cm. lat., 11-13 cm. alt. — Var. *megalopora* a typo differt poris amplioribus.

7. *Hexagonia concinna* Pat. et Hariot, Bull. Soc. Myc. 1893, p. 209. 617

— Pileo sessili, scutato-dimidiato, orbiculari, plano, margine acuto, integro, membranaceo, tenui, nitenti, fusco-badio, zonis confertis concoloribus rugisque notato, glabro; hymenio intense cinereo, ad marginem rufescenti; poris tenuibus glabris, hexagonis, acie integra, obtusiuscula, contextu tenui, ferrugineo.

*Hab.* ad caudices, Congo. — Pileus 9-12 cm. lat. *H. polygrammæ* affinis.

8. **Hexagonia niam-niamensis** P. Henn. Fung. Afr. I, p. 348. — Pileo 618  
lignoso-suberoso, duro, sessili, subreniformi, glaberrimo, nitido, pal-  
lide ligneo, anguste concentricè zonato, zonis ope sulcorum haud  
profundorum inter se sejunctis, superficie superiore hinc inde tu-  
berculato, margine acuto, adnato, substantia suberosa, tenui; al-  
veolis subrotundo-hexagonis intus e pruinoso-cinereo subcanescenti-  
bus obtusisque ambitu variabili nunc isodiametricis nunc præser-  
tim marginalibus radiatim dilatatis.

*Hab.* ad truncos, Niam-Niam Africæ (G. SCHWEINFURTH). —  
Pileus 4-7 cm. lat., 1 cm. cr. *H. sulcatæ* affinis.

9. **Hexagonia tenuis** Hook. Sacc. Syll. VI, 366 — v. *subtenuis* Berk. in 619  
Herb., Grev. XIX, p. 103. — A typo differt alveolis duplo latoribus.

*Hab.* ad truncos in Amer. central., Australia, India.

10. **Hexagonia levis** Berk. in Herb., Grev. XIX, p. 103. — Pileo car- 620  
noso-suberoso, orbiculato aut reniformi, 8 cm. long., levi, cervino,  
opaco, pruinoso, circa marginem depresso-zonato; alveolis profun-  
dis, magnis, irregulariter angulatis, subhexagonis, 2-4 mm. diam.,  
canescentibus, dissepimentis crassiusculis.

*Hab.* ad truncos, Andaman Islands.

11. **Hexagonia Thollonis** Pat. et Hariot, Bull. Soc. Myc. 1893, p. 208. 621  
— Pileo sessili, reniformi, plano v. depresso, rigidiusculo, margine  
acutissimo, leniter fimbriato, azono, atro-fusco, setis rigidis, nume-  
rosis, erectis, ramosis, concoloribus, hirtis; poris mediis tetra-hexa-  
gonis, dissepimentis tenuibus, mollibus et subcartaceis, acie integris,  
ligneo-fuscescentibus; tubulis profundis, glabris, ligneis, azonis.

*Hab.* ad caudices, Congo. — Pileus 5-6 cm. lat.

12. **Hexagonia Deschampsii** Har. Bull. Soc. Myc. 1891, p. 207. — 622  
Pileo rufescenti brunneo, reniformi, coriaceo, crasso, zonato, scrup-  
posulo, radiatim strigoso, margine acuto et obscure lobato, setis  
rigidis rarissimis adpressis hinc inde sparsis; hymenio ferrugineo,  
contextu concolori; poris amplis, polygonis, acie ferruginea integra.

*Hab.* in insula Ceylon (DESCHAMPS). — Pileus 5 cm. lat., 10 cm.  
long. *H. aculeatæ* Mont. affinis.

13. **Hexagonia elegans** Har. Bull. Soc. Myc. 1891, p. 207. — Pileo 623  
suberoso, plano, castaneo, zonis crebris, concentricis, umbrinis, fere  
æquidistantibus, radiatim strigoso, margine acuto, setis rigidis ad-  
pressis brevibus, ad marginem præcipue aculeato; hymenio cinereo;  
poris hexagonis ampliusculis, dissepimentis sat tenuibus.

*Hab.* ex loco ignoto in herb. Mus. Paris. — Pileus 12 cm. lat., 8 mm. cr. *H. aculeatæ* affinis.

**DÆDALEA** Pers. — Syll. VI, p. 370, IX, p. 199.

1. *Dædalea Andamani* Berk in Herb. Grev. XIX, p. 93. — Pileo 624  
coriaceo, strigoso, applanato, molli, brunnescenti, cervino, late effuso  
deorsum confluenti; lamellis ramosis, dentatis; poris sinulosis, con-  
fertis, angustis, dissepimentis tenuibus, demum laceratis.

*Hab.* ad truncos, Andaman Islands. — Pileus 2,5-5 cm. diam.

2. *Dædalea Eatonii* Berk in Herb., Grev. XIX, p. 92. — Coriaceo- 625  
suberosa; pileo flabelliformi vel dimidiato, confluenti vel imbricato,  
5 cm. diam., velutino, azono, sublevi, fusco-umbrino; contextu  
lignicolori; hymenio pileo saturatiore, lamellis radiantibus, tenuibus,  
transverse anastomosantibus, acutis; sinulis rectis, inæqualibus,  
numquam flexuosis.

*Hab.* ad truncos in Cap. Bonæ Spei Africæ.

3. *Dædalea subcongener* Berk. Grev. XIX, p. 93. — Suberosa; pileo 626  
dimidiato, applanato, velutino, pallido, lignicolori vel subfusco, 6-12  
cm. diam., concentrice sulcato, intus pallido, hymenio concolori,  
lamellis confertis, latis,  $\frac{1}{2}$ -1 cm., sinulis confertissimis, flexuosis,  
angustissimis, dissepimentis tenuibus.

*Hab.* ad truncos, Australia, Sierra Leone, Makua Country, Trop.  
Africa.

4. *Dædalea illudens* C. et Massée Grev. XXI, p. 37. — Pileo coria- 627  
ceo, tenui, postice decurrenti, velutino dein fere nudo, griseo, zo-  
nis linearibus, concentricis, saturatoribus notato, subinde a latere  
confluente v. imbricato, margine acuto; hymenio albido; poris prope  
marginem initio rotundis dein sinuosis, angustis, non laceratis, basi  
compositis, dissepimentis tenuibus.

*Hab.* ad truncos, Kumuburra, Victoria Australiæ (MARTIN). —  
Pileus 4 cm. lat. *D. unicolori* affinis.

5. *Dædalea Flabellum* Berk. in Herb., Grev. XIX, p. 93. — Rigida, 628  
coriaceo-suberosa; pileo amplo, reniformi vel flabellato, postice con-  
tracto, quandoque scutato, radiato, rugoso, lineato-zonato, 20-25  
cm. diam., cervino; margine tenui, crispulo vel sublobato; hymenio  
alutaceo, lamellis radiantibus, furcatis, latis, sæpe anastomosantibus,  
dissepimentis tenuibus, rigidis, lacerato-dentatis.

*Hab.* ad truncos Rangoon, Andaman Islands. — *D. aulaco-*  
*phyllæ* Baffinis.

6. *Dædalea incarnato-albida* Chod. et Mart. in Beiheft. Bot. Centr. 629

1891, p. 100. — Pileo reniformi v. spatulato v. cyathiformi, striato, cristato, albido-carneolo, sicco brunnescenti, levi, gibberulo, tenuiter velutino; poris labyrinthiformibus, pileo concoloribus demum flavidis, siccis centro sublamellaribus, margine alveolaribus.

*Hab.* ad truncos Vernier, Genève Helvetiæ. — Pileus 1-4 cm. alt., 1-3 lat. *Polyporo versicolori* formâ similis.

7. *Dædalea Muelleri* Berk. (nec *Trametes Mulleri* B.) Grev. XIX, p. 93. 630

— Pileo suberoso, crassiusculo, convexo, postice attenuato, haud zonato, rugoso v. tuberculato, levi, albido, margine subacuto, hymenio albido, fulvo; lamellis subconfertis, latis, acutis, tenuibus, furcatis et anastomosantibus, hinc inde porosis, dein parallele sinuosis.

*Hab.* ad truncos, Victoria Australiæ. — Pileus 7-8 cm. lat.

8. *Dædalea extensa* Peck 44 Rep. p. 21. — Resupinata, crassa, co- 631

riacea, sæpe inæqualis v. subnodulosa, margine primo gossypino albidoque, mox in brunneum vergenti; subiculo subrufescenti; poris amplis, inæqualibus, labyrinthiformibus, obliquis, albidis; sporis minutis, oblongis, 6-7,5  $\times$  2,5-3.

*Hab.* in truncis prostratis, Salamanca Amer. bor. — Cæspituli 6 cm. v. ultra long.

9. *Dædalea sulphurella* Peck 44 Rep. p. 21. — Resupinata, effusa v. 632

nodulosa, pallide sulphurea; poris brevibus, labyrinthiformibus; dissepimentis in sicco laceratis et irpiciformibus; poris subglobosis v. late ellipsoideis, 5  $\mu$ . long.

*Hab.* ad lignum putre, Salamanca Amer. bor.

**FAVOLUS** Fr. — Syll. VI, p. 390, IX, p. 202.

1. *Favolus subgelatinosus* Berk. in Herb. 3152, Grev. XIX, p. 105. 633

— Pileo carnoso-membranaceo, flabelliformi, 3  $\approx$  2 cm., albido, glabro lævi, ambitu sublobato, postice in spitem brevem attenuato; alveolis stipatis, arctissimis, radiatis, acie denticulatis; sporis albis.

*Hab.* ad truncos, loco ignoto.

2. *Favolus fissus* Lév. — Syll. VI, 391. — var. *Ulei* Hennings 634

Hedw. 1892, p. 98. — Pileo carnoso lento, subspatulato v. excentrice infundibuliformi, supra rugoso-sulcato, alutaceo, margine tenui, sinuato, raro inciso; lamellis laxiusculis, latis, concoloribus; alveolis magnis in stipitem sublateralem decurrentibus; stipite apice reticulato, flexuoso, pallido, villosa.

*Hab.* ad lignum Itajahy Brasilæ. — Stipes 2 cm. long.

3. *Favolus novo-guineensis* Henn. F. Novo-guin. p. 7. — Pileo tenui 635



e membranaceo-coriaceo carnosiusculo, flabelliformi v. subreniformi, levi, dense radiato-striato, plus minusve basi venuloso-sulcato, alutaceo; stipite brevi, basi disciformi sessili, utrinque reticulato v. favoso-pallidiore; poris rhomboideo-alveolatis v. longe hexagonis, acie inciso-dentatis, ochraceo-alutaceis.

*Hab.* ad truncos pr. Kelana Novæ Guineæ (L. KARNBACH). — Pileus usque ad 15 cm. long., 12 cm. lat.; stipes usque ad 1 cm. long., 8 mm. cr. *F. philippinensi* affinis.

4. **Favolus elegantissimus** Speg. Fl. Guar. nonn. n. 19, p. 9. — Pileo 636  
spatulato-flabellato, integro tenuissime membranaceo, pellucido, glabro, levi, postice longe cuneato ac in stipitem elongatum crassum, carnosio-lentum album glaberrimum, superne levem inferne reticulatum productum; hymenio e poris a stipite radiantibus efformato.

*Hab.* ad truncos in silvis pr. Guarapi. — Pileus 80-90 mm. diam. long., 70-80 mm. transv.; stipes subhorizontalis 15-20 mm. long., 6-7. mm. cr. *F. flaccido* Fr. et *F. tenuissimo* Lév. affinis.

5. **Favolus dædaleoides** Speg. Fl. Guar. nonn. n. 21, p. 10. — Pileo 637  
subimbricato, flabellato-reniformi, carnosio-lento, fusco-fuscescenti, glaberrimo, levissimo; poris mediocribus, concoloribus, irregulariter polygonis sæpe dædaleoideo-sinuosis; stipite tuberculoso, glabro, non v. vix evoluto.

*Hab.* ad truncos putrescentes pr. Guarapi. — Pileus 30-60 mm. diam. *F. alutaceo* B. et Mont. affinis.

6. **Favolus Harioti** Speg. Fl. Guar. nonn. n. 22, p. 10. — Pileo con- 638  
vexo-umbilicato, membranaceo, glabro, levi, fulvo; stipite erecto tereti sursum glabro pallescenti deorsum pulverulento-velutino, rufescenti; hymenio e poris rhomboideo-rotundatis mediocribus non decurrentibus efformato.

*Hab.* ad truncos dejectos putridos, pr. Guarapi — Pileus 10-20 mm. diam.; stipes 15-20 mm. alt., 2,5-3 mm. cr. *F. ciliari* Mont. affinis.

7. **Favolus Lauterbachii** Henn. Fung. novoguin. II, p. 32. — Pileo 639  
carnosio-coriaceo, rigido, subreniformi v. flabellato, zonato, radiatim striato v. subsulcato, ruguloso, primum ochraceo-tomentosulo denseque hirto, dein subnudo, sericeo, luteo-badio, margine tenui sæpe undulato subcrenatoque, postice in stipitem lateralem, cuneatum, basi concolorem productum v. apode, usque ad 6 cm. lat., 3 cm. long. tomentosum hirtoque; poris irregularibus, rotundatis v. elongatis, acutangulis sæpius lamellosisque, ciliatis, flavo-ochraceis.

*Hab.* ad lignum vetustum in Gogol Novæ Guineæ.

**GLÆOPORUS** Mont. — Syll. VI, p. 402, IX, p. 204.

1. *Glæoporus corrugatus* Berk in Herb. 3048, Grev. XIX, p. 105. — 640  
Pileo conchiformi, carnoso-lento, 2-3 cm. lat. reticulato-rugoso, glabro, rufo-fusco, sicco corneo, obscuriore; hymenio pallidiori; poris curtis, stipatis, rotundatis, minutis, ad marginem sterilibus, initio gelatinosis.

*Hab.* ad truncos, Nilgherries Indiæ.

**LASCHIA** Fr. — Syll. VI, p. 404, IX, p. 204.

1. *Laschia Latuerbachii* Henn. Fung. novo-guin. II, p. 33. — Pileo 641  
carnosiusculo-gelatinoso, convexo, subruguloso, rufobrunneo, margine undulato, 2-5 mm. diam.; stipite mesopode tenui, gracili, setiformi, levi, rufo-brunneo, curvato usque ad 4 cm. long., vix 5 mm. lat.; poris foveolatis, rotundato-hexagonis, lutescentibus; sporis ellipsoideis v. ovoideis, 1-guttulatis, hyalinis, 5-7 = 4-5.

*Hab.* ad Novam Pomeraniam Oceaniæ. — *L. cæspitosæ* affinis.

2. *Laschia decurrens* (B. et C.) Cooke Grev. XIX, p. 105, *Favolus* 642  
*decurrens* B. et C. in Herb. — Pileo orbiculari, pallido, 1 cm. lat., ad marginem in stipitem æquilongum producto; poris paucis, magnis, hexagonis; dissepimentis crassis, obtusis, in stipitem decurrentibus.

*Hab.* ad ligna in Venezuela.

3. *Laschia viridula* (B. et C.) Cooke Grev. XIX, p. 105, *Favolus vi-* 643  
*ridulus* B. et C. in Herb. — Stipitata; pileo orbiculari, 1 cm. lat., glabro, tenui, fuligineo; stipite centrali 1 cm. et ultra long., concolori; poris angulosis, a venis radiantibus, anastomosantibus efformatis; hymenio subcæruleo-viridi.

*Hab.* ad ligna in Venezuela.

4. *Laschia Flabellulum* (B. et C.) Cooke Grev. XIX, p. 105, *Favolus* 644  
*Flabellulum* B. et C. in Herb. — Ochracea; pileo membranaceo, spathulato vel flabelliformi, minuto 3-5 mm. long., postice in stipitem brevem attenuato, glabro, levi; hymenio concolori, alveolis angulosis inæqualibus composito.

*Hab.* ad ligna, Venezuela.

5. *Laschia tonkinensis* Pat. Journ. Bot. 1891, p. 313. — Pileo or- 645  
biculari v. reniformi, convexo, tessellato, glabro, levi, margine integro, tenui; stipite nullo v. brevissimo; alveolis rotundatis v. elongatis, dissepimentis tenuissimis; sporis hyalinis, levibus, subglobosis 10-12 = 8-10.

*Hab.* ad ligna emortua, Tonkin. — Pileus 1-2 cm. diam.; stipes 4-5 mm. long. *L. papulata* Mont. affinis.

6. *Laschia cæspitosa* Berk. — Syll. VI, p. 407. — var. *gogolensis* 646  
Henn. Fung. novo-guin. II, p. 33. — Cæspitosa; pileis subconicis,  
umbilicatis, radicato-striatis, rugulosis, rufo-brunneis, usque ad 1  
cm. diam.; stipitibus gracilibus, centralibus glabris, flexuosis, rufo-  
brunneis, usque ad 6 cm. long., 1-2 mm. lat., basi tomentosis, coa-  
litis; tubulis usque ad 3 mm. long. rufo-brunneis; poris angulatis,  
inæqualibus, concoloribus; sporis globosis, hyalinis, 2,5-3,5  $\mu$ . diam.  
*Hab.* ad caudices, Gogol Novæ Guinææ.

**MERULIUS** Hall. — Syll. VI, p. 411, IX, p. 205. — Cfr. Grev. XIX,  
p. 109.

1. *Merulius Elliottii* Massee Journ. of Bot. 1892, p. 162, t. 322, 647  
f. 18-19. — Pileo effuso, subbyssoides, toto resupinato, tenui, mar-  
gine tomentoso, flavido, extus intusque croceo; hymenio obsolete  
gyroso-plicato; sporis ellipticis, hyalinis, 3  $\approx$  1,5.

*Hab.* ad arbores emortuas, Richmond Velley, India. — *M. aureo*  
Fr. proximus.

2. *Merulius pelliculosus* Cooke Grev. XIX, p. 109. — Pileo late ef- 648  
fuso, membranaceo, adnato, albo, sicco hyalino, pelliculæ tenuis ad  
instar, margine nudo, hymenio reticulato; poris parum profundis,  
angularibus, siccis vix conspicuis.

*Hab.* ad ramos Acaciæ, Victoria Australiæ.

3. *Merulius Guillemoti* Boud. Bull. Soc. Myc. Fr. 1894. p. 63, Tav. II, 649  
f. 2. — Pileo effuso-reflexo, albo, dimidiato, imbricato; hymenio  
gyroso, luteo-aurantiaco, sporis pulverulento; sporis oblongo-ovatis  
luteo-ferrugineis, 12-13  $\approx$  5-6.

*Hab.* ad ligna fabrefacta, Cherbourg Galliæ. — Pileus 5-6 cm.  
lat., 10-15 cm. long. *M. lacrimanti* affinis.

4. *Merulius sordidus* Berk et Curt., Cooke Grev. XIX, p. 108. — Sor- 650  
didus, resupinato-reflexus, submembranaceus, margine sublibero,  
subtus sericeus, pallescens; hymenio sordide-fusco, reticulato-po-  
roso, plicis tenuibus, sicco vix conspicuis, sporis 7  $\approx$  5 dilute fuscis.

*Hab.* ad ligna, Venezuela.

5. *Merulius rimosus* Berk. in Herb., Cooke Grev. XIX, p. 108. — 651  
Effusus, tenuis, mollis circ. 2-3 cm. lat., adnatus, margine libero,  
reflexo, sublutaceo; hymenio saturatiore, rimoso-diffracto, demum  
areolato-frustuloso, plicis tenuibus, gyrosis; sporis minutis 3  $\approx$  2(?).

*Hab.* ad ligna, New York Amer. bor. (ELLIS).

6. *Merulius candicans* Roum. Rev. Myc. 1886, p. 15. — Pileo albido; 652  
sporis ochraceis.

*Hab.* ad terram in silvis pineis pr. Bruxelles Belgii (E. MARCHAL).

— *M. aureo* Fr. affinis sed species terrestres et ochrospora.

7. **Merulius cartilaginosis** Wettst. Bot. Zeitschr. 1885, p. 151, Pilze 653  
Bergwerk. p. 1. — Pileo resupinato expanso, denique partibus nonnullis marginis reflexo, libero itaque dimidiato, sessili, horizontali et tum supra breviter albo-lanato, cartilaginoso-coriaceo; margine brevissime lanato v. glabro, minutissime crenato; hymenio fusco rugis obtusis plus minusve irregulariter rugis transversalibus conjunctis itaque poros magnitudine diversa formantibus; sporis hyalinis 3-5  $\mu$ . long.

*Hab.* ad ligna emortua in fodina plumblea, Deutsch-Feistritz Stiriae. — Pileus 8-15 cm. long. *M. tremelloso* affinis.

8. **Merulius irpicinus** Peck 47 Rep. p. 18. — Resupinatus, tenuis, 654  
extus tomentellus, albidus, margine breviter flexo; hymenio gyroso-poroso, subferrugineo, sepimentis subinde irpicoideo-dentatis; sporis subglobosis v. ellipsoideis, coloratis, 5-9  $\approx$  4-5.

*Hab.* ad ligna putrescentia, Ithaca Amer. bor. (DUDLEY). — Affinis *Mer. lacrimanti*.

9. **Merulius tenuis** Peck 47 Rep p. 19. — Resupinatus, tenuissimus, 655  
rubro-brunneus, hepaticus, margine pelliculoso-tomentoso, albidus, poris inæqualibus, haud profundis; sporis coloratis, 9-10  $\approx$  6-7.

*Hab.* in lignis putridis, Ithaca Amer. bor. (DUDLEY). — Habitus *M. pulcri* Pers.

10. **Merulius Pinorum** Britz. Hym. Südbayer X, p. 175. f. 168. 656

*Hab.* ad truncos pineos Bavariae australis. — Ochroleucus, rubro-tinctus, subtus albus; sporæ 6-7  $\approx$  4.

# **POROTHELIUM** Fr. — Syll. VI, p. 424, IX, p. 207.

1. **Porothelium tenue** Pat. Bull. Soc. Myc. 1893, p. 131. — Pileo 657  
effuso, tenerrimo, floccoso, albidus, immarginatus; verrucis minutis, globosis, brunneis, pellucidis, leniter prominulis, intus glabris, brunneo-pallidis, extus villosis, nonnullis hyphis hyalinis radiantibus, basim versus adfixis suffultis; sporis levibus, hyalinis, 4  $\approx$  3.

*Hab.* ad ligna emortua, Æquatoria. — Pileus 0,5-1 cm. lat.

2. **Porothelium cinereum** Pat. Bull. Soc. Myc. 1893, p. 130. — Pileo 658  
effuso, tenui, floccoso-pulverulento, cinereo-violaceo, margine sinuoso, albidus, stricto; verrucis confertis, minutis, primo globosis et clausis dein apertis cupuliformibus, extus pruinosis, pallide cinereis; sporis hyalinis ovoideis, 8-9  $\approx$  5.

*Hab.* ad cortices putrescentes, Æquatoria. — Pileus 3-5 cm. lat.

**SOLENIA** Hoffm. — Syll. VI, p. 424, IX, p. 207.

1. **Solenia maxima** Massee Fungus-flora I, p. 143. — Gregaria, sub- 659  
fasciculata, haud conferta; pileo subcylindrico, tenuiter basi con-  
stricto, extus villosus, hyphis continuis gracilibus, minutis particulis  
calcicis exasperatis, albidis v. alutaceo-fulvis; sporis ellipticis, mi-  
nute oblique apiculatis,  $5 \approx 3$ .

*Hab.* ad ligna putrida Britanniae. — Pileus 12 mm. diam.

*Fam. 3. Hydnaceæ Fr.*

**HYDNUM** L. — Syll. VI, p. 430, IX, p. 208 — Cfr. Grev. XX, p. 2.

1. **Hydnum fragrans** Chod. et Mart. in Beiheft. Bot. Centralb. 1891, 660  
p. 100 (*Sacodon*). — Pileo plano v. subdepresso, crasso, difformi,  
margine crasso, glabro, levi, albo-nitenti, cristato; stipite centrali  
v. excentrico, brevissimo, deorsum conice attenuato, griseo v. fu-  
scescenti, sæpe atro, irregulari sulcatoque v. simpliciter conico;  
aculeis carnis, fragilibus, brevibus, ex albido violaceo-griseis, deni-  
que brunneis.

*Hab.* ad terram in Jura Helvetiae.

2. **Hydnum neo-guineense** Henn. Fung. novoguin. II, p. 25. — Pileo 661  
carnoso-coriaceo, expanso v. leniter depresso, sulcato, subzonato,  
lacteo-flavescenti, centro subsquamoso rugoso, margine tenui re-  
flexo, subrepando; stipite centrali crasso, subflexuoso, sulcato, sub-  
tomentoso, concolori; aculeis confertis, flavis dein ochraceis, linea-  
ribus, in stipitem decurrentibus, usque ad 1 mm. long.; sporis glo-  
bosis hyalinis, flavescentibus,  $3-4 \mu$ .

*Hab.* ad terram in Nova Guinea. — Pileus 7-8 cm. diam. Ha-  
bitus potius *H. repandi*.

3. **Hydnum Washingtonianum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 323. 662  
— Carnosum, subviscosum, pallide aurantiacum, leviter centro de-  
pressum, glabrum; stipite centrali 3 mm. crass.; aculeis subulatis,  
cylindricis,  $3-5$  mm. long., ex albido-flavidis, decurrentibus; sporis  
globoso-angulosis  $6-7 \mu$ . diam.; basidiis tereti-clavatis  $20-22 \approx 6$ ,  
quadristerigmicis.

*Hab.* ad terram in silvis pineis, Tracyton Was. Amer. bor. (PAR-  
KER). — Pileus 4 cm. lat. *H. repando* affine sed aculeis decur-  
rentibus.

4. **Hydnum caespitosum** Bann. et Peck 44 Rep p. 74. — Caespitosum; 663  
pileo flavo v. pallidissime ochraceo, sicco, excentrico; aculeis brevi-

bus, decurrentibus, pallidissime ochraceis; stipite solido, cremeo; contextu (vulnerato) flavo.

*Hab.* ad radices arborum et prope caudices vetustos, Carroll county Americæ bor.

5. **Hydnum innotans** G. de Beck Itin. princ. Cob. p. 145, t. 16, f. I. — 664

Pileo cæspitoso, flabelliformi, coriaceo, tenui, scabro-tomentoso, cer-vino-alutaceo, varie zonato, ad marginem crenato-piloso; aculeis ad marginem anguste sterilem album, siccum alutaceum et scabro-tomentosum decrescentibus, subulatis confertis, rigidis obscure fuscis, in siccitate subcinnamomeis.

*Hab.* in Brasilia, Amer. austr. — Pileus 6 cm. long., 10 cm. lat.

6. **Hydnum stereoides** Cooke Grev. XX, p. 90. — Pileis membranaceo- 665

coriaceis numerosis, imbricatis, stipatis, rufo-brunneis dein castaneis glabris, levibus, flabelliformibus vel cuneatis, postice in stipitem late- ralem productis 2-3 cm. alt., margine pallidiore, subtus sterili, tenui, lacerato vel dentato; aculeis subtilibus, confertis, brevibus, albido-pal- lidis.

*Hab.* ad truncos Perak Malacæ — *Stereo eleganti* simile.

7. **Hydnum terrestre** Karst. Symb. Myc. Fenn. XXX, p. 63. — Pi- 666

leo effuso, crustaceo-adnato, pallescenti, ambitu similari, glabro, dentibus e basi subfavosa porrectis, membranaceis, tenuissimis, valde inæqualibus, incisus v. laceris, erectis; sporis sphæroideis, minimis.

*Hab.* ad terram in frigidario Helsingforsiae Fenniae.

8. **Hydnum arachnoideum** Peck 44 Rep. p. 21. — Resupinatum; su- 667

biculo effuso, tenuissimo, arachnoideo v. gossypino, albo; aculeis minutis, brevibus, conicis, inæqualibus, sparsis v. subinde confertis, albidis; mycelio in funiculos graciles, ramosos, albos, radican- tes supra v. intra matricem repentes sæpe abeunte; sporis globosis, 4  $\mu$ . diam.

*Hab.* ad lignum putridissimum Tsugæ canadensis, Salamanca Amer. bor. — Aculei interdum ciliis 2-4 coronati. *H. Micheneri* affine.

9. **Hydnum Melastomæ** Pat. Bull. Soc. Myc. 1893, p. 131. — Pileo 668

carnoso-gelatinoso, late effuso, immarginato, sulphureo; aculeis longis, fasciculatis, subulatis, pruina olivaceo-brunnea conspersis; spo- ris ovatis, levibus, luteo-olivaceis, 6-7  $\approx$  3.

*Hab.* ad truncos Melastomæ, Pululahua, Æquatoria. — *H. luteo- carneo* Secr. et *H. Henningsii* Bres. affine.

10. **Hydnum calcareum** C. et Massee Grev. XXI, p. 38. — Pileo ar- 669

gillaceo-albo, opaco, late effuso, subiculo adnato, crustoso, levi, fa-



rinaceo, indeterminato, extremo margine nudo; aculeis ad basim fasciculatis, apice subulatis, fragiliusculis; sporis ellipticis,  $3 \approx 1,5$ .

*Hab.* ad cortices, Victoria Australiæ.

11. **Hydnum Artocreas** Berk. in Massee Journ. of Bot. 1892, p. 163. 670

— Subiculo determinato, effuso, coriaceo, arcte adnato, ligneo-pallescenti, margine crassiusculo dilutiori, subinde libero; aculeis confertissimis, compressis, passim connatis, lateribus sub lente asperis, concoloribus; sporis subglobosis, hyalinis,  $3-4 \mu$ . diam.

*Hab.* ad ligna cariosa Indiæ occid.

12. **Hydnum Iachnodontium** Berk Grev. XX, p. 2. — Albidum; su- 671

biculo latissimo, papyraceo, primum flocculoso, niveo, margine villosulo; aculeis prælongis, acicularibus, plerumque ad basim compressis, flaccidis, inæqualibus, acutis  $2-3$  mm. longis.

*Hab.* ad caudices, Neilgherries, India.

13. **Hydnum peroxydatum** Berk. in Herb., Grev. XX, p. 1. — Pileo cras- 672

so, effuso, arcte adnato, ferrugineo vel peroxydato; aculeis obliquis, pendulis, stalactitiformibus, crassiusculis, subconfertis, ad basim connatis, rectis, longiusculis,  $2$  mm., obtusis.

*Hab.* ad truncos, Venezuela.

14. **Hydnum analogum** Berk. in Herb., Grev, XX, p. 1. — Subiculo 673

effuso, subvillosulo, sulphureo; aculeis sparsis, paucis, cylindræis, gracilibus, pulverulentis,  $1-9$  mm. long., flavidis.

*Hab.* ad ligna putrida Neilgherries Indiæ.

15. **Hydnum cohærens** Berk. et Curt. Grev. in Herb., XX, p. 1. — Ni- 674

veo, subiculo membranaceo, chartaceo, tenui, adnato, ambitu flocculoso; aculeis subulatis, gracilibus, acutis, hinc illinc in plagas transversas confertis, ceteris nudis.

*Hab.* ad cortices, Venezuela.

16. **Hydnum artocreas** Berk. et Curt. in Herb., Grev. XX, p. 1. — 675

Pileo coriaceo, effuso, margine elevato, limitato, purpureo-fusco, sublibero, canaliculato; aculeis ochroleucis, prælongis, deorsum in areolas connatis, sursum obtusis, totis farinaceis.

*Hab.* ad truncos, Venezuela.

17. **Hydnum scariosum** B. et Br. in Herb., Grev. XX, p. 1. — Pileo 676

resupinato, membranaceo, cervino, sæpe confluenti  $1-10$  cm. long., margine libero, sterili; aculeis brevibus, minutissimis, gracilibus, acutis, confertis, concoloribus.

*Hab.* ad cortices in insula Ceylon.

18. **Hydnum Ayresii** Berk. in Herb., Grev. XX, p. 2. — Subiculo 677

crustaceo, tenui effuso, umbrino, margine indeterminato, velutino,

pallescenti; aculeis confertissimis, subulatis, brevibus, acutis, sæpe deorsum compressis vel confluentibus.

*Hab.* ad cortices, insula Mauritius.

19. *Hydnum microdon* Pers., Fr. Syst. Myc. I, 417, Klot. H. V. Myc. 678  
1918, ed. nova 133. — Effusum, coriaceum, ochraceo-carneum, sub-  
tus tomentosum, aculeis congestis tenuibus nonnullis compressis,  
acutis.

*Hab.* in fodinis lithanthracinis in Germania et Helvetia. — *H.*  
*ochraceo* forte nimis affine.

20. *Hydnum sparsu-aculeatum* Britz. Hym. Südbayer X, p. 175, f. 47. 679

*Hab.* in silvaticis Baviaræ australis. — Brunneum, marginem  
versus flavo-albidum; sporæ 4-5  $\approx$  3, flavidæ. *H. subsquamoso* affine.

21. *Hydnum fragrans* Britz. Hym. Südbayer X, p. 176, f. 54, 55. 680

*Hab.* in silvaticis Baviaræ australis. — Ochraceo-rufum; sp. 6  $\approx$  4.

22. *Hydnum tuberosum* Britz. Hym. Südbayer X, p. 176, f. 69. 681

*Hab.* in silvaticis Baviaræ australis. — Albido-carneum dein  
flavo-rubescens; sporæ flavidæ 6-8  $\approx$  4-5. *H. compacto* affine.

23. *Hydnum inodorum* Britz. Hym. Südbayer X, p. 176, f. 46, 70. 682

*Hab.* in silvaticis Baviaræ australis. — Albidum; centro flavi-  
dum; sporæ 6-7  $\approx$  4-5 flavæ. *H. aurantiaco* affine.

24. *Hydnum macrosporum* Britz. Hym. Südbayer X, p. 176, f. 45. 683

*Hab.* in silvaticis Baviaræ australis. — Pallens dein centro  
brunneo-flavum; sporæ 8  $\approx$  6 flavæ. *H. suaveolenti* affine.

25. *Hydnum fulvo-cæruleum* Britz. Hym. Südbayer X, p. 176, f. 36, 684  
52, 53.

*Hab.* in silvaticis Baviaræ australis. — Cærulescens dein fulvo-  
tinctum; sporæ flavæ 5-6  $\approx$  4-5.

26. *Hydnum sanguineo-fulvum* Britz. Hym. Südbayer X, p. 177, f. 42, 685  
43, 56, 57, 58.

*Hab.* in silvaticis Baviaræ australis. — Fulvo-sanguineum, mar-  
gine albicans; sporæ 6-7  $\approx$  4. *H. ferrugineo* affine.

27. *Hydnum fulgineum* Britz. Hym. Südbayer X, p. 177, f. 59. 686

*Hab.* in silvaticis Baviaræ australis. — Brunneum albido-mar-  
ginatum; sporæ 6-8  $\approx$  4-5. *H. velutino* affine.

28. *Hydnum testaceo-fulvum* Britz. Hym. Südbayer X, p. 177, f. 21 687  
60, 61.

*Hab.* in silvaticis Baviaræ australis. — Fulvo-testaceum; sporæ  
5  $\approx$  4, flavidæ. *H. velutino* affine.

29. *Hydnum ferrugineo-album* Britz. Hym. Südbayer X, p. 177, f. 63. 688

*Hab.* in silvaticis Baviaræ australis. — Ferrugineo v. rubro-

brunneum, marginem versus albicans; sporæ 4-6  $\mu$ . diam. ochraceæ. *H. scrobiculato* affine.

30. **Hydnum radiato-rugosum** Britz. Hym. Südbayer X, p. 178, f. 29, 64. 689

*Hab.* in silvaticis Baviariæ australis. — Rufo-brunneum, albo marginatum; sporæ 6  $\approx$  4. *H. zonato* affine.

31. **Hydnum suberoso-coriaceum** Britz. Hym. Südbayer X, p. 178, 690 f. 67.

*Hab.* ad radices in silvis Baviariæ australis. — Rufo-brunneum obsolete brunneo-violaceo-zonatum, margine pallens; sporæ 6  $\approx$  4 flavæ *H. hirtio* affine.

32. **Hydnum decolorosum** Britz. Hym. Südbayer VIII, p. 14, f. 34. 691

*Hab.* in silvis pineis Baviariæ australis. — Totum fusco-argillaceum; sporæ 3-4  $\mu$ . diam. *H. amico* affine.

33. **Hydnum occultum** Britz. Hym. Südbayer VIII, p. 14, f. 36. 692

*Hab.* in muscosis et gram. Baviariæ australis. — Subochraceum margine albicans; sporæ 3-4  $\mu$ . diam.

34. **Hydnum auratile** Britz. Hym. Südbayer VIII, p. 14, f. 40. 693

*Hab.* in silvaticis Baviariæ australis. — Fulvo aureum, margine albidum, aculeis igneis; sporæ 5-6  $\approx$  3-4. *H. aurato* affine.

35. **Hydnum Novæ-Zelandiæ** Colenso in Trans. N. Zealand. Inst. XXIII, 694 1891, p. 391, Beih. Bot. Centr. 1892 p. 18 (nomen).

# **TREMELLODON** Pers. — Syll. VI, p. 479.

1. **Tremellodon pusillum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 323. 695

— Minutum, stipitatum, gelatinosum, album, subdiaphanum, subreniforme, fumose brunneum, sparse pilosellum; aculeis laxiusculis, albis, subcompressis, 0,5 mm. long. lateraliter ramulis tuberculi-formibus paucis auctis; sporis ovoideo-globosis, 5-6  $\approx$  3,5-4,5, nucleatis.

*Hab.* ad ligna emortua inter arbores coniferas, Tracyton Washington Amer. bor. (PARKER). — Pileus 1-1,5 cm. lat.; stipes lateralis, tenuis, hirtellus, fumosus, 1 cm. long., 2 cm. crass.

# **IRPEX** Fr. — Syll. VI, p. 482, IX, p. 213 — Cfr. Grev. XIX, p. 109. 696

1. **Irpex decolor** (B. et Br.) Cooke Grev. XIX, p. 109, *Irpex decolor* B. et C. in Herb. — Pileo incrustante molli, subgelatinoso, albo, demum cartilagineo lividoque; ambitu determinato, subfimbriato; dentibus compressis, inæqualibus, sparsis, apice acutis, integris.

*Hab.* ad caudices putridos, folia et caules in ins. Cuba.

2. *Irpex decurrens* Berk. in Herb., Cooke Grev. XIX, p. 109. — Pi- 697  
leo effuso, reflexo, tenui, azono, 1-2 cm., sericeo, fuligineo, sicco incurvo, postice decurrente; dentibus subulatis, acutis, elongatis, pallidioribus.

*Hab.* ad cortices, Japoniæ (DICKINS):

3. *Irpex crispatus* Berk. in Herb., Cooke Grev. XIX, p. 109. — Pi- 698  
leo resupinato, ex albo ochraceo, subiculo tenui, subarachnoideo, aculeis compressis, membranaceis, inæqualibus, crispatis, apice denticulatis.

*Hab.* ad cortices Venezuela. — *I. depauperato* affinis.

4. *Irpex modestus* Berk. in Herb., Cooke Grev. XIX, p. 109. — Pileo 699  
effuso, adnato, umbrino; margine indeterminato, tenuissimo, subvelutino, sinuato-poroso; dentibus confertis, compressis, breviusculis, basi conjunctis.

*Hab.* ad cortices, ins. Mauritius. — *I. cinnamomeo* gracilior.

**ASTERODON** Pat. Bull. Soc. Mycol. 1894, p. 130 (Etym. *aster* et *odous*, *odontos* dens). — Resupinatum, effusum, membranaceo-flocosum, aridum, cystidiis stellatis, brunneis fartum. Hymenium inferum aculeatum, aculeis subulatis; sporæ oblongæ, subhyalinæ.

1. *Asterodon ferruginosum* Pat. l. c. tab. V. — Irregulariter effusum; 700  
subiculo tenui fulvo-ochraceo; aculeis 1-1,5 mm., stipatis, acutis; basidiis subteretibus, 20-25  $\times$  6-8; sporis levibus, 6  $\times$  4; radiis cystidiorum stellatorum 30-100  $\mu$ . longis, simplicibus.

*Hab.* ad ligna putrida in Fennia.

**RADULUM** Fr. — Syll. VI, p. 493, IX, p. 214. — Cfr. Grev. XX, p. 3.

1. *Radulum spongiosum* Berk. Hook. Journ. 1854, p. 168, n. 450. — 701  
Pileo dimidiato, tenui, spongioso, fusco-pallescenti, subzonato, fasciculatim substrigoso.

*Hab.* in ligno putri, Nepal (HOOKER). — Pileus 5 cm. lat., 2-3 cm. long., initio albicans, subinde habitus *Lenzitis striatæ*.

2. *Radulum Emerici* Berk. Cooke Grev. XX, p. 3. — Pileo resupi- 702  
nato, adnato, suborbiculari vel confluenti, alutaceo, margine albido, hymenio initio poroso demum dentato, dissepimentis tenuibus acutis.

*Hab.* ad caudices Neilgherries, India.

3. *Radulum neilgherrense* Berk. in Herb., Cooke Grev. XX, p. 3. — 703  
Pileo primum velutino demum subglabrescenti; hymenio pallide violaceo-cervino, margine sterili, tomentoso; dentibus brevibus, obtusis.

*Hab.* ad caudices Neilgherries, India.

4. *Radulum Pini-canadensis* Schwein. Syn. North Amer. Fung. n. 595. 704

— Resupinatum, subinnatum, effusum, ambitu varium, ex albido alutaceum, papillis majusculis fasciculatis, brevibus obsitum.

*Hab.* in ramis dejectis Pini canadensis, Mauch Chunk Amer. bor.

5. *Radulum hydnans* Schwein. Syn. North Am. Fungi n. 596. — 705

Longe lateque effusum, subindeterminatum, ambitu subbyssinum, candidum, subpulverulentum, centro e luteo rubro-pallens; tuberculis subsubulatis, difformibus, confluentibus, crassis, breviusculis apice candicantibus.

*Hab.* in ligno nudo carioso, Bethlehem Amer. bor. — *R. læto* affine.

6. *Radulum investiens* Schwein. Syn. North Amer. Fung. n. 597. — 706

Longe lateque ramulos investiens, subtomentosum, ochraceo-pallidum, tuberculis sparsis, subuliformibus 4-10 mm. long. teretibus, subarcuatis.

*Hab.* in truncis et ramis Diervillæ Tournefortii emortuis sed adhuc stantibus in Amer. bor. — Abnormis species et vix hujus loci.

**THWAITESIELLA** (Massee Grev. XXI, p. 2 (Etym. a G. H. THWAITES [1811-1882] anglo, floræ zeylanicæ scrutatore). — Resupinata, tenuis, sicca rigida; hymenium, margine excepto, laminis anastomosantibus, sæpe plus minus e centro radiantibus præditum. Basidia 4-spora; sterigmata ampla, hyalina, conica; sporæ hyalinæ, continuæ.

1. *Thwaitesiella mirabilis* (B. et Br.) Massee Grev. l. c. *Radulum* 707

B. et Br., Syll. VI, n. 6940. — Late effusa, a matrice haud secedens, primo plus minus orbicularis dein subinde confluens; hymenio e sterigmatibus copiosis minute velutino; sporis ellipsoideis, utrinque obtusis, levibus, hyalinis, 9 ≈ 5; sterigmatibus fusoides, 50-60  $\mu$ . long., particulis oxalati calcei adspersis.

*Hab.* ad lignum emortuum, Ceylon (THWAITES). — Cæspituli 2,5-7,5 cm. diam., primo albidi dein pallide castanei; laminæ 1-2 mm. alt.

**PHLEBIA** Fr. — Syll. VI, p. 497, IX, p. 215.

1. *Phlebia coccineo-fulva* Schwein. Fung. Amer. Bor. p. 165, n. 603. 708

— Irregulariter sinuato-effusa, margine strigoso-pennicillata, fibrilloso-spongiosa, fulvo-crocea, centro primitus tuberculosa, coccinea, dein processibus elongatis lobulosis non valde elevatis coccineis, albido prunosis prædita.

*Hab.* in trunco carioso Juglandis tomentosæ, Nazareth Amer. bor.

2. *Plebia hydnoidea* Schwein. Fung. Amer. Bor. p. 165, n. 604. — 709  
Effusa, irregulariter tuberculosa fulvo-rufa; subiculo crasso, substantia fibrillosa subpulverulenta demum subsuberosa; processibus hydnoideis papillatis, subdiaphanis, apice fimbriatis, concoloribus.

*Hab.* in trunco putrido in montosis, Bethlehem Amer. bor. — 50-60 cm. subinde extensa. Cfr. *Odontia lateritia*.

3. *Phlebia spilomea* Berk. et Curt. herb., Cooke Grev. XX, p. 3. — Pileo 710  
effuso orbiculari vel confluenti adnato, membranaceo, ambitu pallido, hyssino, hymenio purpureo, plicis radiantibus minimis, demum papillatis.

*Hab.* ad cortices, Venezuela, S. Carolina, Iowa.

4. *Phlebia deglubens* Berk. et Curt. herb., Cooke Grev. XX, p. 3. — 711  
Pileo effuso, adnato, ambitu libero, recurvo, subtus pallido; hymenio rufescenti, plicis intricatis, meruliiformibus, dein subpapillatis, ceraceis.

*Hab.* ad truncos, Venezuela.

5. *Phlebia Sodirol* Pat. Bull. Soc. Myc. 1892, p. 116. — Resupinata, 712  
tenuis, papyracea, longitudinaliter elongata, margine reflexo, subtus villosa, albida, zonata; hymenio ceraceo carneo-rufo; plicis tenuibus confertis, obtusis, frequenter interruptis, hinc inde orbiculariter dispositis.

*Hab.* ad cortices, Pallatanga, Æquatoria. — Pileus 10-15 long.

# GRANDINIA Fr. — Syll. VI, p. 500, IX, p. 215.

1. *Grandinia subochracea* (A. et S.) Bresad. Hedw. 1894, p. 206. *The* 713  
*leph. granulosa* v. *subochracea* Alb. et Schw. Consp. p. 279?

*Hab.* ad truncos Salicis pr. Königstein Saxoniae (KRIEGER). — E flavo-vitellina subochracea; sporæ 6-7  $\approx$  3-3,5 hyalinæ.

# ODONTIA Pers. — Syll. VI, p. 507, IX, p. 216.

1. *Odontia olivascens* Bres. F. Trid. II, p. 36, t. 141, f. 2. — Pileo 714  
effuso, crustaceo-adnato dein rimoso, ambitu farinaceo, ex albo olivascenti; verrucis papilloso-granuliformibus, apice hyalino-fimbriatis; sporis hyalinis, globosis, minutis punctato-asperulis, 4-5  $\mu$ . diam.

*Hab.* ad ramos Rosæ caninæ, Val di Sole, Trentino. — *O. bugel-  
lensi* affinis.

2. *Odontia Pirottæ* Bres. Due Spec. interess. Funghi p. 7, tav. II. — 715  
Subiculo late effuso, membranaceo, albo, secedenti, funiculis rhizomorphaeideis percurso, ambitu himantioideo; aculeis teretibus,



apice pruinato-fimbriatis, læte aurantiacis; sporis ovoideis, stramineis,  $4,5-5 \approx 3,5$ ; basidiis clavatis; hyphis subhymenialibus hyalinis, septatis.

*Hab.* ad muros udos Horti botanici Romæ. — *O. fimbriatæ* Pers. affinis.

3. *Odontia lilacina* Bres. Myc. austral. nov. in Hedw. 1893, p. 118. 716  
— Pileo effuso, crustaceo-adnata, indeterminata, amœne lilacina ambitu similari; verrucis subdistantibus, aculeiformibus, minutis, concoloribus, apicibus albo-pennicillatis.

*Hab.* ad cortices ad N. S. Wales Richmond River Australiae.

4. *Odontia tenuis* Peck 44 Rep. p. 22. — Effusa, tenuissima, mollis, 717  
sicca, margine haud fimbriato; verrucis minutis, nudo oculo vix perspicuis, subglobosis v. oblongis, sparsis v. confertis, subinde integris; mycelio in filamenta gracilia, ramosa, sordide luteola subinde collecto.

*Hab.* in ligno putridissimo Betulæ luteæ, Salamanca Amer. bor.  
— *O. fuscae* affinis.

5. *Odontia cremorina* Bresad. in Sacc. F. Abyss. n. 8. — Late effusa, 718  
crustaceo-adnata, candida demum cremoricolor, margine persistenter albo, farinaceo; verrucis subconfertis, minimis, granuliformiconoideis, fimbriatis; sporis ellipsoideis, hyalinis,  $6 \approx 3-3,5$ .

*Hab.* ad ramos emortuos in M. Dongollo pr. Ghinda col. Erythrææ — *Odontia bugellensi* affinis.

# KNEIFFIA Fr. — Syll. VI, p. 510, IX, p. 216.

1. *Kneiffia tinctor* Berk. in Herb., Cooke Grev. XXX, p. 3. — Tota 719  
resupinata tenuis, effusa, læte alutacea, subtus matricem rufo-tingens, margine indeterminato, granulis minutis.

*Hab.* ad ligna putrida, Venezuela.

2. *Kneiffia subtilis* Berk. in Herb., Cooke Grev. XX, p. 4. — Tenuis, 720  
effusa, membranacea, ex mycelio niveo, arachnoideo enata, albida, margine indeterminato, granulis minutis, hinc illinc aggregatis.

*Hab.* ad ligna in Nova Zelandia, Venezuela.

3. *Kneiffia tenuis* Pat. Bull. Soc. Myc. 1893, p. 132. — Resupinata, 721  
effusa, tenuis, matrici arcte adnata, albida, vix ochracea, margine stricto, sinuato, nudo, albo-pulverulento, contextu tenui, filamentoso, hyalino; setis numerosis, cylindraceis, apice obtusis, albidis, rigidis, sterilibus, ex hyphis hyalinis sæpe incrustatis, subparallelis compositis; sporis hyalinis, levibus, cylindraceo-curvulis,  $13 \approx 5$ .

*Hab.* ad cortices S. Jorge Æquatoriæ. — *Corticium Typhæ* Fuck., Syll. VI. p. 640 est *Kneiffiæ* adscribendum, teste Pat.

**MUCRONELLA** Fr. — Syll. VI, p. 512, IX, p. 218.

1. *Mucronella minutissima* Peck 44 Rep. p. 22. — Aculeis minutis- 722  
simis, gregariis, subulatis, albis; sporis minutis, ellipsoideis, 4 = 2,5.

*Hab.* ad lignum putre querneum, Clarksville, Albany county  
Amer. bor. — Aculei circ.  $\frac{1}{2}$  mm. long.

*Fam. 4. Thelephoraceæ Pers.*

**HYPOLYSSUS** Pers. — Syll. VI, p. 521.

1. *Hypolyssus foetidus* Massee Journ. of Bot. 1892, p. 197, t. 325, f. 3. 723  
— Gregarius, foetidus, pallide ochraceus, durus; pileo uniformi,  
farcto, supra subdepresso, lateraliter tecto hymenio ochraceo, sicco  
contiguo, ruguloso; stipite tenui, æquali, glabro; sporis globosis,  
hyalinis 3  $\mu$ . diam.

*Hab.* ad ligna emortua, Walliboo Valley, India occid. — *H.*  
*Montagnei* proximus.

2. *Hypolyssus Sprucei* Massee in Grev. XX, p. 33. — Pileo clavato, 724  
stipitato, erecto, albo, dein sicco pallide fulvo; hymenio omnino  
involventi, levi, ceroso, regularissime longitudinaliter sulcato, sicco  
rimoso, apice sterili plano et minute velutino; stipite distincto,  
gracili, deorsum minute tomentoso; basidiis 4-sporis; sporis 4  $\mu$ .  
diam., hyalinis.

*Hab.* ad lignum et ramos in Valli Amazonum Brasiliæ (SPRU-  
CE). — Fungus circ. 17 mm. alt.

**THELEPHORA** Ehr. — Syll. VI, p. 521, IX, p. 220. — Cfr. Grev.  
XIX, p. 108, et XX, p. 34.

1. *Thelephora griseo-zonata* Cooke Rav. Fnn. Amer. N. 444, Grev. 725  
XIX, p. 104. — Cæspitosa, mollis; pileolis imbricatis, applanatis  
2-5 cm. lat. sericeo-strigosis, zonatis; zonis cervinis griseisque alter-  
nantibus, margine subfimbriato, badio, in stipitem sublateralem por-  
rectis; hymenio infero purpureo-badio, rugoso; sporis subglobosis,  
asperulis, fuscis, 7-8  $\mu$ . diam.

*Hab.* ad terram, S. Carolina Amer. bor.

2. *Thelephora subiculosa* Pat. Journ. de Bot. 1891, pag. 314. — 726  
Pileis clavariæformibus, numerosis, gracilibus, coriaceis, brevibus,

ad extremitates in ramulos acutos divisus, superficie villosa, brunnea; mycelio atro-brunneo, stratum densum, tomentosum, substratum obvallantem efformanti.

*Hab.* ad ramulos super terram, Tonkin. — Pileus 0,5-1 mm. cr., 1, cm. alt. *Th. scopariæ* Lev. et *T. amboinensi* Lev. affinis.

3. **Thelephora marginata** Veuill. Rev. Myc. IV, pag. 175, Ann. Soc. 727  
bot. Lyon. t. XVII, p. 289. — Pileo tenui, zonato, undulato, tomentoso, zona marginali alba lobato, secunda rufa, ceteris atrofufidis et cuiusdam algæ præsentia viridescens; hymenio striato, costato, margine obtuso, albido, ceterum e brunneo-cyaneo cinerescens; sporis hyalinis, levibus, continuis, 7-8.

*Hab.* ad truncos siccos, Lyon. — *T. intybaceæ* affinis. Teste Quélet forte ad *Stereum spadiceum* Pers. pertinet.

4. **Thelephora Amansii** Brond. Agen. IV, t. 12, Rev. Myc. 1892, p. 65. 728  
— Pileo divisionibus foliaceis, coriaceis, connatis, concentricis, laciniatis, sertulatis, albido-violaceis dein rufis composito.

*Hab.* ad humum in silvis Galliæ. — *V. intybaceæ* Pers. varietas videtur.

5. **Thelephora odorifera** Peck 44 Rep. pag. 22. — Cæspitosa; pileo 729  
subcoriaceo, subdimidiato, imbricato, fibroso-tomentoso, sordide albido v. griseolo; hymenio æquali, haud nitenti, concolore; stipite nullo aut brevi; sporis globosis, echinulatis, coloratis, 7,5-9  $\mu$ . lat.

*Hab.* ad terram, Jamesville Amer. bor. — Pileus 16-25 mm. *Th. intybaceæ* affinis.

6. **Thelephora subochracea** Peck 46 Rep. p. 29. — Pileo resupinato, 730  
crustaceo, cæspitulos suborbiculares efformanti, tenui, tenaci, sicco, pallide ochraceo, subinde margine tenui, albido, byssino prædito.

*Hab.* in silvis ad Shokan Amer. bor. — Cæspituli 2,5-7,5 cm. lat.

7. **Thelephora regularis** Schwein. Syn. Car. 999. — Solitaria, infun- 731  
dibuliformis, sericeo-nitens, testacea, fusco-subfasciata, margine lacero, hymenio pallido subpapilloso; stipite fuligineo.

*Hab.* in muscosis ad ripas scaturiginum, Carolina, Amer. bor. et Zanzibar. — Pileus minimus 7-8 mm. alt.

9. **Thelephora exsculpta** Berk. Linn. Journ. XIII, p. 168, Austr. 732  
Fungi n. 128. — Orbicularis, carneo-grisea, tota resupinata, centro levi, versus marginem exsculptum dentato-radiata, subvenosa, hic illic lacunosa, subtus atropurpurea.

*Hab.* ad cortices, Dandenong range, Victoria Australiæ. — 6 cm. lat.

10. *Thelephora fusca* Fries (?) in *Libert's Supp.* N. 406, Cooke in 733  
Grev. XX, p. 33, nec *Corticium fuscum* Pers. — Sporis globosis,  
spinulosis, 10  $\mu$ . diam.  
*Hab.* in Arduennis.
11. *Thelephora zygodesmoides* Ellis N. A. Fungi n. 715, Cooke Grev. 734  
XX, p. 34. — Sporis globosis spinulosis, 8-10  $\mu$ . diam.  
*Hab.* pr. New Jersey Amer. bor.
12. *Thelephora (Sebacina) hirneoloides* Pat. Bull. Soc. Myc. 1893, 735  
pag. 141. — Sessilis, cupuliformis, resupinata, tenuis, margine in-  
voluto, sparsa aut confluens et plagas latas incrustantes, mar-  
gine libero, efficienti; pagina externa glabra v. pruinosa, albida;  
hymenio vix gelatinoso, cinereo-pruinoso, levi, contextu tenui, pel-  
lucido; basidiis globosis septatis.  
*Hab.* ad ramulos siccos Æquatoria.
13. *Thelephora (Sebacina) glauca* Pat. Bull. Soc. Myc. 1893, p. 140. 736  
— Pileo effuso, incrustanti, non rimoso, membranaceo-gelatinoso,  
tenui, glauco-cinereo, contextu hyalino, pellucido; basidiis globosis  
dein ovatis, longitudinaliter cruciatim septatis, sterigmatibus æqui-  
longis; sporis hyalinis, curvulis, 15  $\approx$  6.  
*Hab.* ad ramos emortuos, Æquatoria. — Pileus 3-4 cm. long.,  
1 cm. lat. *S. casicæ* Tul. affinis.
14. *Thelephora (Tomentella) atramentaria* Rostr. Mycol. Meddel. 737  
p. 41. — Atra, in sicco olivaceo-brunnea; hyphis laxè intricatis,  
brunneis, ramosis, articulatis, 5-7  $\mu$ . diam.; sporis late ellipsoideis,  
9-11  $\approx$  8-9, verrucosis.  
*Hab.* ad terram in insula Seelandia.
15. *Thelephora (Tomentella) suberis* Pat. Journ. De Bot. 1894, 738  
p. 221. — Resupinata, membranaceo-floccosa, late extensa, flavo-  
ochracea dein isabellina, primitus albo-marginata; hymenio papil-  
lis granulatis crebris consperso; sporis brunneis, globoso-angulosis,  
echinulatis, 7-10  $\mu$ . diam.; basidiis tetrasporis.  
*Hab.* in subere usto, El Feidja Tunisiæ. — *Corticio* (Toment.)  
*geophilo* affinis.
16. *Thelephora (Tomentella) lateritia* Pat. Journ. De Bot. 1894, 739  
pag. 221. — Tenuissima, resupinata, late extensa, tomentosa, non  
granulata, lateritia; hyphis hyalinis materie rubra nitida incru-  
statis; sporis globoso-angulosis, echinulatis, brunneolis 6-8  $\mu$ . diam.  
*Hab.* in ligno ustulato *Quercus Suberis*, parasitice supra *Hy-*  
*pochnum longisporum*, El Feidja Tunisiæ.
17. *Thelephora (Tomentella) ochraceo-viridis* Pat. Bull. Soc. Myc. 740

1893, p. 134. — Pileo effuso, tenui, pulveraceo, pallide ochraceo-viridi, hyphis hyalinis (sub lente) v. dilute ochraceis, ramosis, septatis, laxissime intricatis, basidiis in apice ramorum, cylindraceis, superne rotundatis; sporis globosis, eximie aculeatis, dilutissime ochraceis, 8-10  $\mu$ . diam.

*Hab.* ad ligna putrida et muscos arboricolas, *Æquatoria*.

**SEPTOBASIDIUM** Pat. Journ. de Bot. 1892, p. 63. — Pileus effusus, resupinatus, coriaceus, non gelatinosus. Hymenium disjunctum; basidiis primitus globulosis et simplicibus dein cylindraceis et transverse septatis, rectis v. curvulis, sterigmata in convexitate gerentibus. Sporæ continuæ, oblongæ, hyalinæ. — Prope *Thelephoram*, sed basidia potius *Tremellacearum*.

1. **Septobasidium albidum** Pat. Bull. Soc. Myc. 1893, p. 136, tab. VIII, 741 f. 1. — Resupinatum, effusum, albidum; hymenio levi v. rimoso, pruinoso; margine stricto, tenui, albo-pulverulento; contextu fibroso, rufo, ex hyphis brunneis, septatis, levibus, composito; basidiis versus apicem hypharum oriundis, primitus ovoideo-clavatis, dein elongato-clavatis; sporis hyalinis, 25  $\approx$  6-7.

*Hab.* ad caules, *Æquatoria*.

2. **Septobasidium velutinum** Pat. Journ. de Bot. 1892, p. 63, c. ic. — 742 Pileo resupinato, coriaceo, arachnoideo, late expanso, atro-purpureo cinerescenti, margine tenui, adnato, angustissimo, filamentoso, albidum; fasciculis sub pileo filamentosis rectis, rigidis, numerosis, rufescentibus matrici adhærentibus.

*Hab.* ad caulem emortuum Lianæ cujusdam in *Æquatoria*.

3. **Septobasidium pedicellatum** (Schw.) Pat. l. c. *Thelephora* Schw. 743 — Syll. VI, p. 544. — Pileo e filamentis rigidis constans; basidiis lateralibus, hyalinis, globosis, basi brevi stipitatis, dein rotundato-piriformibus, demum recurvis, septatis.

*Hab.* in *Æquatoria*, Amer. bor., Cuba, India ad ramos subvivos.

**MATRUCHOTIA** Boulang. Rev. Myc. 1894, p. 70, tab. 142-144, f. 1-13 (Etym. a cl. MATRUCHOT). — Fungi floccosi, fere stilboidei, dendroidei, erecti, ramosi, ex hyphis coalitis constantes. Hymenium proprium nullum; rami fertiles in basidia clavata, bisterigmica, creberrima desinentes. Sporæ subglobosæ, hyalinæ.

1. **Matruchotia varians** Boul. l. c. — Cæspitosa, byssina, alba, dein 744 ochroleuca; filamentis fructiferis ascendentibus, dendroideo-ramosis basidia lateralia creberrima unumque terminale ferentibus; basidiis clavatis bisporis; sporis globoso-ovoideis, levibus, hyalinis, 6  $\approx$  4-5.

*Hab.* ad cortices udos *Piscidiæ erythrinæ* ex America allatæ ad usum pharmaceuticum. — Adest simul status conidiophorus hyphis sejunctis, conidia ovoidea  $6-8 \approx 4,5-5$  gerentibus. Habetus totius fungi potius *Hyphomycetis* quam *Hymenomycetis*.

**BECCARIELLA** Cesat. — Syll. VI, p. 550.

1. *Beccariella Trailii* Cooke in Grev. XX, p. 33. — Pileo spatulato 745  
v. late obovato, integro v. lobato, stipitato, crasso, spongioso dein  
margine incrassato, albo, basi dense tomentoso, margine fimbriato  
et fere levi; stipite laterali, valido, cylindraceo, tomentoso; hyme-  
nio radiato-ruguloso, costis tenuibus, acutis, margine in processus  
breves, conicos, dentiformes disruptis; sporis globosis, apiculatis,  
7-8  $\mu$ . diam.

*Hab.* ad caudices, Rio Junia Brasilæ (Doct. TRAIL). — Pileus  
5-10 cm. diam.; stipes 12-16  $\approx$  12 mm.

2. *Beccariella Kingiana* Massee in Grev. XX, pag. 33. — Pileo reni- 746  
formi, tenui, sicco fragili et bullato-ruguloso, lanuginoso, ochra-  
ceo-fulvo, margine tenui et subfimbriato, sessili, ad sinum cum di-  
sco laterali adnexo; hymenio radiato-ruguloso, plicis non prominen-  
tibus acieque tenui, margine aculeis confertis, gracilibus, parvis,  
setuliformibus prædito, sicco rufo-castaneo; sporis globosis, apicu-  
latis, 5  $\mu$ . diam.

*Hab.* ad lignum putre, Goping in Archipelago Malesiæ. — Fun-  
gus 7,5-10 cm. long., 3,5-4 cm. lat.

**STEREUM** Pers. — Syll. VI, p. 551, IX, p. 222. — Cf. Grev. XX,  
p. 34-35.

1. *Stereum prolificans* Berk. in Massee Mon. Thel. 2, pag. 167. — 747  
Gregarium; infundibuliforme; stipite brevissimo; pileo sulcato-zo-  
nato, velutino, spadiceo; hymenio levi, plicato, nitido, brunneo;  
sporis ellipsoideis, 7  $\approx$  5.

*Hab.* Cape York, Brisbane, Melbourne Australiæ. — Pileus 5  
cm. lat., 2-3 cm. long.

2. *Stereum monochroum* Cooke et Massee in Grev. XX, pag. 91. — 748  
Pileo flabelliformi, basi angusta adnexo, tenuissimo, imbricato, mi-  
nute velutino, læte ferrugineo demum glabro et saturatiore, indi-  
stincte zonato, conferte radiato-ruguloso; hymenio delicate albido-  
pruinoso dein glabro demum rubro-tincto; sporis ellipsoideis, hya-  
linis, 12  $\approx$  5-6.

*Hab.* ad lignum emortuum, Perak in Pæninsula Malacensi. —  
Pileus 2,5-5 cm. diam., siccus rigidus. *S. vespilloneo* affine.



3. **Stereum Bertolonii** Sacc. *Thelephora lobata* Bert. Misc. bot. XVII, 749 p. 22, t. II, fig. 2, e, f. 9. — Semiorbiculare, conchiforme, stipite brevissimo lateraliter affixum v. subsessile, margine lobatum, acie nigrescenti, supra cinereo-tomentosum, quadrizonatum, zonis senescentibus nigro-limbatis; hymenio levi intus cinereo superficie lutescenti.

*Hab.* ad ramos arboris ignotæ Alabama Amer. bor. (GATES). — Pileus 1,5-2 cm. lat. « A *Stereo lobato* Fr., anteriori, differt parvitate, colore, zonis, sed nescio an sit distinguendum ab affinis aliis ».

4. **Stereum pannosum** C. et Massee Grev. XXI, p. 38. — Cæspitosum, connatum, sessile; pileo molli, spongioso, flexili, reflexo, pallide umbrino, velutino, lineis elevatis, concoloribus concentricis zonato, demum postice pallido; hymenio cremeo, levi, compacto, demum rimoso; sporis  $3 \approx 2$ , hyalinis.

*Hab.* inter muscos et ad terram, Victoria Australiæ (MARTIN). — Pileus 2 cm. v. ultra lat.

5. **Stereum lateritium** Kalchbr. in Thüm. Contr. Myc. Lus. I, p. 17. 751 — Pileo conchato-reflexo, sublibero, suberoso-coriaceo, rigido, lobato-subimbricato, zonato, strigoso-hirsuto et passim setis strictis, decumbentibus vestito, lateritio, in margine dilutius, carneo, hymenio papilloso, pruinoso, carneo-rubello, ad marginem subaurantiacum.

*Hab.* ad ramos et truncos pr. Coimbra Lusitaniæ.

6. **Stereum bellum** (Kunze) Sacc. Syll. VI, p. 563. — Var. **togoense** 752 P. Henn. F. Afr. II, p. 21. — Imbricatum, substipitatum, rigidum; pileo flabellato, fusco-cinnamomeo, dense tomentoso, azono, margine tenui, inciso-lobato, pallidiore, nudo; hymenio subcostato, glabro, cinereo-cinnamomeo, pruinoso.

*Hab.* in regione togoënsi Africæ.

7. **Stereum Riofrioi** Pat. Bull. Soc. Myc. 1892, p. 117, t. XI, f. 3. 753 — Pileo carnoso-coriaceo, tenui, pellucido (in sicco), infundibuliformi, margine acuto, integro, deflexo, plus minus repando, supra intense coccineo, levi, glabro, centrum versus reticulato-cristato; hymenio glaberrimo, levi, rubro-ochraceo; stipite elato, gracili, æquali, glabro, corneo, nigro, apice rubro pellucidoque.

*Hab.* ad rhizomata, Æquatoria (RIOFRIO). — Pileus 3 cm. diam. Hæc species a typo *Stereo* differt sicut *Heliumyces* a *Marasmio*.

8. **Stereum fissum** Berk. in Massee Mon. Theleph. II, 169. — Al- 754 bum; pileo primum spatulato demum flabellato, profunde fisso;

stipitibus brevissimis e basi communi membranacea oriundis; hymenio levi; sporis ellipsoideis  $8-10 \approx 4-5$ .

*Hab.* in ramis emortuis in Brasilia et Æquatoria. — Pileus siccus ochraceus 2-3 cm. long.; habitus *Cantharelli partiti*.

9. **Stereum rigens** Karst. Hattsvamp II, pag. 243. — Pileo coriaceo 755  
rigido, effuso v. reflexo, tomentoso, concentricè sulcato, pallido, margine acuto, albo 6-10 cm. lato; hymenio levi, glabro, siccò rimoso, testaceo, tactu cruentato; sporis ellipsoideis  $6-7 \approx 3$ .

*Hab.* ad cortices Abietis excelsæ, Mustiala Fennicæ. — Forte tantum var. *S. sanguinolenti*.

10. **Stereum arenicolum** Berk. in Massee Mon. *Theleph.* II, p. 201. 756  
— Resupinatum, effusum, crassum, rigidum, subtus tomento ferrugineo molli vestitum; hymenio levi, glabro, fusco-purpurascenti; sporis ellipsoideis,  $7 \approx 4-5$ .

*Hab.* in arenosis, sub truncis Veracruz Mexici. — 5-7 cm. lat. Substantia pallide cinnamomea.

11. **Stereum rubro-pallens** (Schwein.) Cooke Grev. XX, p. 35, *Thelephora* 757  
*Schwein.* Amer. bor. n. 667. — Effusum, indeterminate effiguratum, late albo-marginatum, centro subroseo-incarnatum, crebre (sporis) pulverulentum; contextu ex hyphis arcte intertextis.

*Hab.* in corticibus et lignis, Bethlehem Amer. bor. — Longe lateque effusum, 40-50 cm. latum.

12. **Stereum Lagerheimii** Pat. Bull. Soc. Myc. 1891, p. 162. — Pileo 758  
leo resupinato, a matrice haud secedenti, tenuissimo, late effuso, purpureo-brunneo, margine albo, effuso; hyphis laxis, dilute coloratis, septatis, ramosis, in ramulos breves, basidiophoros v. in ramulos steriles cystidiformes elongatos desinentibus, contextu; basidiis cylindraceis, pennicillatim aggregatis.

*Hab.* ad ramos emortuos, Æquatoria.

13. **Stereum fallax** Pat. Bull. Soc. Myc. 1891, p. 162. — Pileo tenuissimo, 759  
siccò, resupinato, secedenti, orbiculari, quandoque confluenti, primitus badio-fulvo, linea alba marginato, mox griseo-incarnato; cystidiis fusoides, subyalinis; basidiis ramulis cystidiformibus intermixtis.

*Hab.* ad ramulos emortuos, Æquatoria. — Species *Peniophoræ* proxima.

14. **Stereum latum** Cooke et Massee in Grev. XX, p. 92. — Pileo 760  
latissime effuso, resupinato, tenui, margine late libero sed non v. vix reflexo, lobato et repando, velutino-strigoso, costis numerosis, angustis, concentricis notato, uniformiter flavido-cinnamomeo; hy-

menio minute albido-pruinoso, cinnamomeo atque roseo-tincto, in parte resupinata noduloso, margine levi; sporis hyalinis, globosis, apiculatis, 10  $\mu$ . diam.

*Hab.* ad corticem emortuum, Perak in pæninsula malacensi. — Cæspituli ultra 30 cm. long., 15 cm. lat., margine libero 2,5–5 cm. lat.

15. **Stereum ambiguum** Peck 47 Rep. p. 19. — Resupinatum, subor- 761  
biculare, confluens, subsuberosum, fragile; fulvo-brunneum, rimosum, pruinoso, infra tomentellum, margine flavicans; sporis oblongis v. subfusoidis, 12–17  $\approx$  5.

*Hab.* ad cortices et ligna Abietis nigræ Adirondack Mount. Amer. bor.

16. **Stereum populneum** Peck 47 Rep. p. 19. — Resupinatum, tenue, 762  
orbiculare, sæpe confluens, minute rimosum, brunneo-olivascens, sub vitro tenuissime albo-punctatum, margine pallidior radiatodentato, demum libero; sporis oblongis, 12–15  $\approx$  4.

*Hab.* ad cortices truncorum humi jacentium Populi tremuloidis, Adirondack Mount. Amer. bor. — Affine *S. albo-badio*.

17. **Stereum nigrum** Britz. Hym. Südbayer X, p. 178, f. 42.

*Hab.* ad truncos pineos Baviaræ australis. — Brunneo-nigri- 763  
cans, hymenio brunneo-lilacino; sporæ 6–7  $\approx$  3. *S. rugoso* affine.

## HYMENOCHÆTE Lév. — Syll. VI, p. 588, IX, p. 227.

1. **Hymenochæte Schomburgkii** P. Henn. Fung. Bras. p. 15. — Pileo 764  
coriaceo, membranaceo-fuscidulo; stipite farcto irregulari, subcompresso-ruguloso, basi tuberculoso, velutino, apice valde ramoso; ramis in pileolos plurimos abeuntibus, pileatis, flabellatis, fibroso-rugulosos, margine lobato v. laciniato; hymenio levi v. ruguloso; setulis fulvis, cuspidatis.

*Hab.* in Guyana anglica. — Stipes 10 cm. long., 8 mm. cr. *H. formosæ* Lév. affinis.

2. **Hymenochæte Kunzei** (Fries) Hook. Bot. Miscell. II, p. 163, tab. 85. 765  
Massee Mon. Thel. II, p. 100. — Pileo dimidiato, sessili, ceraceo-membranaceo, tenui, rigido fragili, fusco, sericeo velutino, marginato, zonis angustis concoloribus; hymenio subtiliter velutino, ferrugineo, setulis tenuibus, tereti-acuminatis 40–50  $\approx$  10–12; sporis ellipsoideis 10  $\approx$  5.

*Hab.* ad ramos Surinam, Bahia, Venezuela, Brasilia. — 5 cm. long., 6–7 cm. lat.

3. **Hymenochæte agathicola** P. Henn. Fung. novoguin. II, 24. — Resu- 766

pinato-effusa, atro-vinosa, margine libero, reflexo, undulato, ochraceo-tomentosa; setis subulatis, simplicibus, atro-vinosis, 80-140  $\approx$  10-15; sporis non visis.

*Hab.* in caulibus *Agathis australis*, Auckland Novæ Zealandiæ. *H. vinosæ* peraffinis.

4. **Hymenochæte scruposa** Mass. Grev. XX, p. 11. — Pileo effuso, 767  
rugoso, scruposo, fulvo-umbrino, margine dein libero et floccoso, pallidiore; sterigmatibus numerosis, 80-90  $\approx$  15, læte brunneis; sporis 7  $\approx$  4.

*Hab.* ad corticem in Venezuela.

5. **Hymenochæte flavo-marginata** Pat. Bull. Soc. Myc. 1892, p. 118. 768  
— Pileo toto resupinato, arcte adnato, longitudinaliter effuso, tenuissimo, non rimoso, margine striato, flavo-citrino; hymenio setuloso, badio-fusco; setis rigidis, subulatis, numerosis fuscis.

*Hab.* ad ramulos *Coriariæ thymifoliæ*, Æquatoria.

6. **Hymenochæte episphæria** (Schwein.) Cooke Grev. XX, p. 11. *The-* 769  
*lephora* Schwein. Amer. bor. 723; Fries Elenc. I, p. 225. — Effusa, tenuissima, subpulveracea, helvola; sporis ellipsoideis, olivaceis, 8  $\approx$  5; setulis tenuibus, brunneis, levibus.

*Hab.* supra *Diatrypen Stigma* ad ramulos, Carolina Amer. bor.

**BONIA** Pat. Bull. Soc. Myc. 1892, p. 48 (Etym. a cl. R. P. Bow mycetum tonkinensium strenuo collectori). — Resupinata, coriacea, papyracea; hymenium setis brevibus, confertis, æqualibus, pluricellularibus, e contextu subjacente erumpentibus hirtum.

1. **Bonia papyrina** Pat. l. c. t. VII, f. II. — Resupinata, tenuis, pa- 770  
pyracea, margine integro, acuto ex applicato exserto, ochraceo-pallida, in maculas late expansa, contextu coriaceo, flavido, zona densiore ex elementis confertioribus; setis superficiali-emergentibus, ex hyphis conglutinatiss, formatiss, 300  $\approx$  30-40, brunneis; cystidiis hyalinis, 15-20  $\approx$  8-10; sporis non visis.

*Hab.* ad cortices emortuos, Tonkin. — Pileus 350  $\mu$ . cr. Habitus *Hymenochætiss*. *Hydnum flavum* Berk. ad genus *Bonia* quoque referendum.

**SKEPPERIA** Berk. — Syll. VI, p. 603.

1. **Skepperia andina** Pat. Bull. Soc. Myc. Fr. 1893, p. 2, t. I, f. 2. 771  
— Minuscula, 0,5 mm. alt., ex albo brunnea et rufo-punctata; pileo laterali, carnosoceraceo, orbiculari, dein ad marginem sinuoso, supra convexo, primum plano et subtus convexo, dein concavo mar-

gineque plus minus inflexo; pagina externa punctis rufidis signata; hymenio albido vix rufescenti; sporis hyalinis, ovoideis,  $10 \approx 4$ .

*Hab.* ad ramulos emortuos Büttneriæ glabrescentis pr. Quito, Æquatoria.

**CORTICIUM** Fr. — Syll. VI, p. 603, IX, p. 230. — Cfr. Grev. XX, p. 12.

1. **Corticium pezizoideum** (Schw.) Schrenk Bull. Torr. Cl. 1894, p. 385, 772  
*Peziza pezizoidea* Schw. Syll. IV, p. 644, *Hypocrea Richardsoni* Berk. et Mont., Sacc. Syll. II, p. 528.

*Hab.* in ramis populeis frequens in Amer. bor. — Basidia clavulata, 4-sterigmica, 5-6  $\mu$ . cr.; sporæ allantoideæ, 5-7  $\approx$  1,5; cystidia clavulata obsolete apice bi-trifurcata.

2. **Corticium subrepandum** Berk. et Cook. Grev. VI, p. 81. — Subco- 773  
 riaceum, primo pezizoideum, orbiculare, demum applanatum confluens; hymenio marginato subochraceo, sicco rimoso margine libero; sporis late ellipsoideis, basi apiculatis,  $12 \approx 7-8$ .

*Hab.* in ligno putrescenti, Newfield N. J. Amer. bor.

3. **Corticium croceum** (Pat.) Sacc. *Aleurodiscus croceus* Pat. Bull. 774  
 Soc. Myc. 1893, p. 133. — Erumpens, cupuliforme, orbiculare v. elongatum, carnosu-coriaceum, margine recto, inflexo, ciliato, pagina externa alba, villosa; hymenio levi plano v. concaviusculo, croceo-aurantiaco, pruina alba consperso; basidiis prælongis  $140 \approx 25$ , clavatis, obtusis, sterigmata 4 valida  $25 \approx 5$  gerentibus, pilis hymenicis apicem versus multispinosis intermixtis; sporis globoso-ovoidæis, hyalinis, levibus dein asperulis,  $25-28 \approx 20$ .

*Hab.* in ramis Melastomatis in Æquatoria. — Contextus croceus, inferne albidus. *C. amorpho* affine.

4. **Corticium albo-flavescens** Ell. et Ev. Proc. Acad. Phil. 1894, p. 324. 775  
 — Suborbiculare fere pezizoideum dein irregulare, albo-lacteam, superficie pallide olivaceo- v. flavido-pruinosa, margine albo subfimbriato; sporis copiosis, globosis, 1-guttatis, 4-6  $\mu$ . diam. dilute coloratis.

*Hab.* in truncis emortuis stantibus Kalmiæ latifoliæ, Nuttallburg, W. Va. Amer. bor. (NUTTALL.)

5. **Corticium pezizoides** Pat. Journ. Bot. 1891, p. 314. — Sessile, ex- 776  
 pansum, orbiculare, pezizoideum, glabrum, translucidum, tenue; hymenio cinereo levique in sicco, undulato et violaceo-brunneo humiditate, margine obtuso et inflato; basidiis claviformibus, longissimis; sporis ovoideo-cylindræis, subcurvulis, lateraliter insertis, levibus, hyalinis viridescentibus  $8-10 \approx 5$ .

*Hab.* ad cortices varias, Tonkin. — Pileus 3-4 mm. diam.

*C. salicino* analogum.

6. **Corticium radicale** Berk. Hook Journ. 1845 p. 59. — Pileo crassiusculo intus albo, reflexo, plano, strigoso, albido-fulvo; hymenio glabro, rimosulo, pallide fulvo demum fusco; margine sterili tomentoso.

*Hab.* ad basim fruticum adhuc viventium, in Australia (DRUMMOND). — Pileus 2 cm. long., 3 cm. lat. Prædistincta species.

7. **Corticium sulphurellum** Cooke et Massee in Grev. XX, p. 35. — 778 Pileo late effuso, stratum tenuissimum, pulverulentum, læte sulphureum vulgo efformanti; hymenio dum perfecte evoluto ceraceo et nitepti; sporis 7 ≈ 4.

*Hab.* ad corticem arborum emortuarum, Oakleigh Victoria Australiæ (MARTIN).

8. **Corticium penetrans** Cooke et Mass. in Grev. XIX, p. 90. — Pileo 779 albo, effuso, incrustanti, crasso, mobili, stricte adnato, immarginato, mycelio profuso, floccoso, penetranti; hymenio continuo, æquali, levi, calcareo; sporis 9 ≈ 7.

*Hab.* ad lignum putridum in Sorrento, Victoria Australiæ (MARTIN). — *C. portentoso* affine sed sporis diversum.

9. **Corticium Kalmiæ** Peck 46 Rep. p. 29. — Effusum, tenue, tenerum, 780 a matrice haud secedens; subiculo atque margine indeterminato ex hyphis gracilibus, albidis efformatis; hymenio glabro, continuo, flavido-ochraceo; sporis levibus, ellipsoideis, 10-12,5 ≈ 6-7,5.

*Hab.* ad ramos emortuos Kalmiæ latifoliæ, Shokan Amer. bor. — *C. deglubenti* et *C. secedenti* affine sed a matrice non separabile.

10. **Corticium papyraceum** Massee Journ. of Bot. 1892, p. 163, t. 323, 781 f. 35-36-39. — Pileo longitudinaliter effuso membranaceo, valde tenui, indeterminato, albido, senectute pallide ochraceo, sicco, ruguloso-inciso; sporis hyalinis, oblongo-cylindræis, levibus 4 ≈ 1,5.

*Hab.* ad ramulos dejectos, India occid. — *C. lacteo* simile.

11. **Corticium Roumeguerii** Bres. Rev. Myc. 1893, p. 31, F. Trid. II, 782 p. 36, t. 144. — Pileo late effuso, ceraceo, arcte adnato, ex albo argillaceo, ambitu similari; hymenio levi, sub lente velutino, rigido, sicco rimoso; basidiis clavatis, cystidiis fusoideo-cuspidatis, pedicellatis, tunica furfuracea fusoidea, primitus obductis; hyphis subhymentalibus parallelo-stipatis, conglutiuatis, minus evidentibus; sporis hyalinis, subellipticis, 5-7 ≈ 2-3.

*Hab.* ad truncos, in Gallia, Italia.



12. **Corticium aurantiacum** Bres. F. Trid. II, p. 37, t. 144, f. 2. — 783  
 Pileo ceraceo, adglutinato, e suborbiculari late confluenti, ambitu albo; radianti; hymenio levi, sub lente pruinoso, læte aurantio-miniato, expallenti; sporis hyalinis, late obovatis v. ellipsoideis, 12-15  $\approx$  9-10; basidiis clavatis; cystidiis fusoides-cuspidatis, tunica clavata, furfuracea, primitus obductis, hyphis cylindraceis, septatis.  
*Hab.* ad ramos Alni viridis in regione tridentina, Bavaria, Hungaria, in Suecia. — *C. incarnato* affine.
13. **Corticium cerussatum** Bres. F. Trid. II; p. 37, t. 144, f. 3. — 784  
 Pileo latissime effuso, adglutinato, ceraceo, albo demum stramineo, margine e pruinoso mox similari; hymenio levi, glabro, sub lente pruinoso, ætate rimoso diffracto; sporis hyalinis, ellipsoideis 10-14  $\approx$  7-9; basidiis clavatis; cystidiis cylindraceis, corniculato-pinnatis.  
*Hab.* ad ligna mucida, Tridenti. — *C. pubero* affine.
14. **Corticium cæsius** Bresad. Rev. Myc. 1893, p. 32, F. Trid. II, p. 39, t. 145. — 785  
 Pileo latissime effuso, tenui, arido, subgrumoso, cæsius v. cæsius-cinereo, canescenti, ambitu similari; hymenio levi, sub lente subtiliter pruinoso, demum rimoso; sporis hyalinis, cylindraceo-subcurvulis 8-11  $\approx$  3-4; basidiis clavatis, deorsum luteolis; cystidiis clavato-capitatis, hyalinis, inferne luteis.  
*Hab.* ad ramos corticatos in agro Tridentino.
15. **Corticium pellucidum** Pat. Bull. Soc. Myc. 1893, p. 134. — 786  
 fusum, omnino resupinatum, orbiculare, tenue, pellucidum, carnosotremellosum, margine adnato, strigoso-fimbriato, albo, evanescenti; hymenio pruinoso, mox rimoso, fulvo-albido; basidiis clavatis; sporis ovoideis, levibus, hyalinis, 13-16  $\approx$  7-8.  
*Hab.* ad ramos emortuos, Æquatoria. — Pileus 0,5-1,5 cm. diam.
16. **Corticium Chusqueæ** Pat. Bull. Soc. Myc. 1893, p. 134. — 787  
 latissime effusum, undique adnatum, tenuissimum, albido-luteolum, floccosum, siccum, margine indistincto, floccoso, superficie sub lente sparse aspero-tomentosum; cystidiis hyalinis, longissimis, transverse pluriseptatis, extus rugosis, basidiis fasciculatis, hyalinis, 4-sporis; sporis ovoideis, hyalinis 10-11  $\approx$  3-4.  
*Hab.* ad culmos emortuos Chusqueæ, Æquatoria.
17. **Corticium tuberculosum** Pat. Bull. Soc. Myc. 1892, p. 118. — 788  
 Pileo fibroso-carnoso, indeterminato, adglutinato, tabacino-violaceo, ambitu tenui, arcte adnato, fibrilloso-membranaceo, roseo-ochraceo; hymenio tuberculis minutissimis, confertissimis, carnosulis, subglo-bosis in vivo, cupuliformibus in secco, marginatis composito; contextu pallide violaceo.

*Hab.* ad truncos putridos, Æquatoria.

18. **Corticium foetidum** B. et Br. Ann. Nat. Hist. 1879, p. 211, Massee 789  
Mon. Theleph. II, p. 131, tab. VI, fig. 3. — Olidum, effusum, re-  
supinatum, subtus arachnoideum, ex albo ochraceum, glabrum; spo-  
ris ellipsoideis  $7 \approx 4$ .

*Hab.* in scobe lignea Coed Coch, Wales Britanniae.

19. **Corticium Berkeleyi** Cook. in Mass. Mon. Thel. II, p. 133. — La- 790  
tissime effusum, tenuissimum, indeterminatum, matrici totum adna-  
tum; hymenio rimoso, sordide albo v. fusciscenti, sporis ellipsoideis  
 $7-8 \approx 4$ .

*Hab.* in cortice pineo in Americæ borealis parte merid. — Ha-  
bitus *Corticii vagi*.

20. **Corticium debile** Berk et Curt. in Massee Mon. Thel. II, 131. — 791  
Late effusum, tenuissimum, subsecernibile, contextu margineque bys-  
soideo, albis; hymenio glabro, ochraceo; sporis ellipsoideis  $7 \approx 3-4$ .

*Hab.* ad ligna, Venezuela et Amer. bor.

21. **Corticium ribesium** Fr. Syst. Myc. I, 444, Schwein. Amer. bor. 792  
719. — Subrotundum, ambitu radiatum, luride incarnatum, tū-  
berculo centrali magno.

*Hab.* in ramis Ribis, in Europa et Amer. bor. — Medium inter  
*C. polygonium* et *C. maculæforme*.

22. **Corticium Lycii** (Pers.) Cooke in Massee Mon. Thel. II, 122, The- 793  
lephora *Lycii* Pers. — Effusum, tenue, margine pallido, libero,  
subhyssosideo, hymenio lilacino, contiguo; sporis ellipsoideis  $8 \approx 4$ .

*Hab.* ad ramos *Lycii* et *Syringæ vulgaris* in Germania, Gallia,  
Britannia. — Primitus orbiculare.

23. **Corticium penetrans** Cooke et Massee Grev. XIX. p. 90. — Al- 794  
bum, effusum, incrustans, crassiusculum, molle, arcte adnatum,  
immarginatum, mycelio floccoso, profuse penetranti, hymenio con-  
tinuo levi, calceo; sporis subpiriformibus  $9 \approx 7$ .

*Hab.* in ligno putrescenti, Sorrento, Victoria Australiæ (MARTIN).  
*C. porientoso* affine.

24. **Corticium carbonaceum** Berk. et Curt., Grev. XX, p. 12. — O- 795  
mnino effusum, tenue, papyraceum dein nigrum; hymenio levi;  
sporis ellipsoideis,  $5 \approx 3$ .

*Hab.* ad corticem, Venezuela Amer. centr.

25. **Corticium compactum** Berk. et Curt., Grev. XX, p. 12. — Late 796  
effusum, indeterminatum, ochraceo-album, tuberculatum, rigidum;  
hymenio levi.

*Hab.* ad cortices, Pennsylvania Amer. bor.

26. *Corticium rigescens* Berk. et Curt., Grev. XX, p. 12. — Late 797  
effusum, stricte adnatum, rigidum, album, siccum rimosum v. po-  
rosum, hinc inde ac præcipue margine ad brunneolum vergens.

*Hab.* ad lignum etc., Venezuela Amer. centr.

27. *Corticium cretaceum* (Fr.) Cooke Grev. XX, p. 13, *Thelephora* 798  
Fries obs. Myc. I, p. 153. — Effusum, humidum, farinoso-creta-  
ceum, album, subinquinans.

*Hab.* ad truncos pineos et sambucinos, in Europa et America.

**ASTEROSTROMA** Massee. — Syll. IX, p. 236.

1. *Asterostroma andinum* Pat. Bull. Soc. Myc. 1893, p. 133. — Pileo 799  
resupinato, pallide effuso, fragilissimo; subiculo tenui, fulvo; hyme-  
nio albo-incarnato; sporis globosis v. subglobosis 6-7  $\approx$  5, hyalinis,  
levibus; radiis hypharum stellatarum longissimis 70-100  $\mu$ ., fulvo-  
pallidis, simplicibus v. subinde ramulosis.

*Hab.* ad terram udam, pr. Quito, Æquatoria.

2. *Asterostroma bicolor* Ell. et Ev., Proceed. Acad. Nat. Sc. Philad. 800  
1893, p. 441. — Effusum, immarginatum, tenue; hymenio sordide  
albido; substrato ferrugineo; hyphis stellatis, saturate brunneis,  
spinis 3-4 radiantibus, 60-100  $\approx$  4-5, validis præditis; sporis glo-  
bosis, hyalinis, 5-7  $\mu$ . diam.

*Hab.* in ligno putri, Wilmington, Delaware Amer. bor.

3. *Asterostroma Gaillardii* Pat. Journ. Bot. 1894, p. 220. — Resu- 801  
pinatum, floccoso-arachnoïdem, tenuissimum, ex albo-ochraceum,  
margine albo v. filis rhizomorphaïdeis rubentibus cinctum; sporis  
hyalinis echinulatis 8  $\mu$ . diam.; cystidiis stellatis fulvis, 75  $\mu$ . long.

*Hab.* in ligno denudato Pini halepensis, Bon Chebka Africae bor.

— *Aster. cervicolori* affine.

4. *Asterostroma hapalum* (Berk. et Br.) Massee Mon. Theleph. I, 802  
p. 154, *Corticium hapalum* Berk. et Br. Journ. Lin. Soc. XIV,  
p. 72. — Late effusum, margine angustissimo candido, hymenio  
subtiliter setuloso, isabellino; sporis fusoides 10  $\approx$  3.

*Hab.* in corticibus Central. Province, Insulæ Ceylon. Setæ stel-  
latæ ramis sæpe furcatis.

**PENIOPHORA** Cooke. — Syll. VI, p. 640, IX, p. 237.

1. *Peniophora Molleriana* (Bres.) Sacc. Flor. mycol. lusit. p. 7, *Cor-* 803  
*ticiuM MollerianuM* Bres. in litt. — Late effusa, arcte adnata,  
ceracea, argillacea v. ochroleuca, ambitu albido subfurfuraceo; hy-  
menio levi, sub lente cystidiis pruinoso; sporis oblongis v. subcy-  
lindræis, 5-7  $\approx$  3; basidiis clavatis 40-50  $\approx$  6-7; cystidiis fusoides,

asperulis 60-70  $\approx$  10-15; hyphis cylindræis, sepatis, ad septa non v. unilateraliter nodosis, 3-4  $\mu$ . cr.

*Hab.* ad ligna Eucalypti Globuli, Choupal pr. Coimbra Lusitaniæ. — *Corticio citrino* habitu et colore simillima at notis micrologicis abunde diversa (Bresadola in litt.). Etiam *Penioph. puberæ* (Fr.) Sacc. valde affinis. Cfr. Pat. Tab. n. 152.

2. *Peniophora lilacina* (Schw.) Mass. Mon. p. 147, *Thelephora lilacina* Schw. Amer. Bor. n. 680. — Effusa, tenuissima, confluens, ambitu alba, subradians; hymenio subtiliter velutino, lilacino; cystidiis 20-30  $\approx$  5-6; sporis ellipsoideis 8  $\approx$  4.

*Hab.* in corticibus, Amer. bor. — Affinis *P. cinereæ* sed cystidiis minoribus et parciore.

3. *Peniophora Crosslandi* Massee Grev. XXI, p. 7, Fung. Fl. I, p. 418. — Effusa, tenuis, uda mollis, sicca e matrice secedenti; hymenio minute setuloso, pallide griseo, sicco leniter ochraceo-tincto; margine determinato, subelevato; basidiis numerosis, conicis, 30-40  $\approx$  10, hyalinis, particulis calcareis adpersis; sporis ellipsoideis, 6  $\approx$  3.

*Hab.* ad corticem et lignum Abietis, Halifax Britannia. — Cæspituli 2,5-5 cm. diam.

4. *Peniophora Atkinsonii* Ell. et Ev. Proc. Acad. Phil. 1894, p. 324. — Arcte adnata, tenuis, fumoso-lilacina v. subavellanea inæquali, cystidiis subulato-cylindræis 30-40  $\approx$  5-7; sporis ellipsoideis 4-5  $\approx$  2-3, e latere visis suballantoideis, 4-5  $\approx$  1,2-1,5.

*Hab.* ad cortices arborum, Syracuse N. Y. Amer. bor. (ATKINSON).

# CONIOPHORA DC. — Syll. VI, p. 647, IX, p. 241.

1. *Coniophora capnoides* Ell. et Ev. Proc. Acad. Phil. 1894, p. 324. — Tenuissima, purpurea, numquam rimosa; sporis brunneis, levibus, subglobosis, 3-4  $\mu$ . diam., in-quoque basidio solitariis.

*Hab.* in cortice acerino emortuo, London, Canada Amer. bor. (DEARNESS). — Habitus fere *Corticii fumigati*. Ad genus *Coniophora* spectat, teste Cooke, *Corticium atrovirens* Fr., Syll. VI, p. 614.

**ALDRIDGEA** Massee Fungus-flora I, p. 103 (Etym. a domina EMILY ALDRIDGE). — Pileus resupinatus, effusus, carnosus, primo subgelatinosus, siccus cartilagineus v. rigidus et collapsus. Hymenium leve, æquale. Basidia 4-spora. Sporæ continuæ, olivaceæ, leves. Genus *Coniophoræ* affine.

1. *Aldridgea gelatinosa* Massee l. c. fig. 20, 21, pag. 97. — Late effusa, carnosula, subgelatinosa, pallida dein collapsa, sicca rigida, et

purpureo-brunnea, margine determinato; sporis late ellipsoideis, oblique apiculatis, olivaceis, levibus,  $16 \approx 6-7$ .

*Hab.* ad scobem in Britannia.

**HYPOCHNUS** Fries. — Syll. VI, p. 657, IX, p. 242.

1. **Hypochnus filamentosus** Pat. Bull. Soc. Myc. 1891, p. 163, t. XI, 809 f. II. — Pileo tenui, floccoso, effuso, superficiali, roseo v. albido, folii utramque paginam plus minusve obtegenti; basidiis parum elongatis, hyalinis; sporis hyalinis  $10-12 \approx 5-6$ .

*Hab.* ad folia viva Dianthi et Amaryllidis, Æquatoria.

2. **Hypochnus longisporus** Pat. Journ. de bot. 1894, p. 221. — Te- 810 nuissimus, mucedineus, expansus, albicans; hyphis hyalinis noduloso-septatis  $2-3 \mu$ . diam.; basidiis fasciculatis cylindraceis,  $2-4$ -sterigmicis; cystidiis cylindraceis, rugulosis, hyalinis,  $50-60 \approx 3-4$ ; sporis elongatis, hyalinis rectis v. curvis  $13 \approx 3$ .

*Hab.* in ligno usto Quercus Suberis, El Teidja Tunisiæ.

3. **Hypochnus subviolaceus** Peck 47 Rep. p. 25. — Effusus, tenuis- 811 simus, floccoso-membranaceus, adnatus, violaceo-griseus, margine albidus; sporis subglobosis, fere hyalinis,  $5-6$ .

*Hab.* in ligno decorticato Canada (MACOUN).

4. **Hypochnus Solani** Prill. et Delacr. Bull. Soc. Myc. 1891, p. 220, 812 C. ic. — Membrana effusa, tenuior, leviter granulosa, siccitate rimosa, cuticulæ vix adhærens, griseo-albida parte interiori fuscidula; basidiis ovato-globosis subelongatisve, superne rotundatis; sporis hyalinis, ovatis, basi apiculatis,  $10 \approx 6$ .

*Hab.* ad caulem Solani tuberosi, Æquatoria.

**EXOBASIDIUM** Wor. — Syll. VI, p. 664, IX, p. 244.

1. **Exobasidium Cassiopes** Peck 45 Rep. p. 24. — Roseum, rubrum, 813 purpureum v. albido-purpureum; sporis oblongis,  $12,5 \mu$ . long.

*Hab.* ad ramulos et folia Cassiopes Mertensianæ, Olympia et Washington Amer. bor. — Fungus ramulos et folia tumefaciens.

2. **Exobasidium Schinzianum** P. Magn. Ein neues Exob. cum tabula. — 814 Maculas hypophyllas, albas, rotundas efformans; hymenio erumpente; sporis longe fusoides, subincurvatis, continuis,  $12 \mu$ . long., additis quibusdam 1-septatis,  $17,8 \mu$ . long.

*Hab.* in foliis vivis Saxifragæ rotundifoliæ pr. Hospenthal, Canton Uri Helvetiæ (SCHINZ).

3. **Exobasidium Tradescantiæ** Pat. Bull. Soc. Myc. 1892, p. 118. — 815 Hypophyllum, cellulas paginæ inferioris per series lineares et ner-

vis parallelas infestans, cellulis hinc turgescens; stromate in quaque cellula subgloboso, albo, carnoso, compacto, trans porum epidermidis extus erumpenti; parte exteriori alba diffusaque basidia claviformia, hyalina, bispora gerenti; sporis hyalinis, 15-18  $\approx$  5.

*Hab.* ad folia viva Tradescantiæ in Æquatoria.

4. **Exobasidium graminicolum** Bres. in Krieger, Fungi Saxonici n. 664, <sup>816</sup> Hedw. 1893, p. 32. — Late effusum, indeterminatum, matrici arcte adnatum, tenue, subceraceum, niveum demum luride lutescens; basidiis dense stipatis, superficiei foliorum innatis, tereti-clavulatis, bisporis, raro 1 vel 3-sporis, 50-60  $\approx$  4-6, sterigmatibus longiusculis præditis; sporis chlorino-hyalinis, guttulatis, elongatis, 10-12  $\approx$  4, mox promycelium et conidiola germinantibus..

*Hab.* in foliis vivis Graminearum (Arrhenatheri, Bromi) totam paginam superiorem investiens, Königstein Saxoniae. — Ab *Exobasidiis* typicis differt receptaculo folium haud deformante et basidiis generatim bisporis.

5. **Exobasidium Vitis** Prill. et Delacr. Comptes rendus Acad. sc. Paris <sup>817</sup> 1894.

*Hab.* in foliis Vitis viniferæ morbo s. d. «rougeot» v. «brûlure» laborantibus in Galliae pluribus locis. — Basidia 8-10  $\mu$ . cr., apice sporas tereti-ovoideas 12-16  $\approx$  4-6,5 hyalinas numero 2-9 gerentes. Ab *Aureobasidio* omnino diversum.

**UROBASIDIUM** Giesenhag. Hexenbes. Farn. p. 139, t. XII, f. 1-6 (Etym. *oura* cauda quia *basidia* cellula stipitiformi fere caudata). — Mycelium tenuissimum, arachnoideum, hyalinum partim matrici innatum; hyphæ repentes, filiformes, ramosæ, septatæ, hinc inde basidiophoræ; basidia obpiriformia, obtuse curvo-rostrata, colorata, cellula cylindrica hyalina stipitiformi fulta et lateraliter sterigmata bina gerentia; sporæ globosæ, solitariae. Cum *Zygosporio* Mont. comparandum genus.

1. **Urobasidium rostratum** Giesenhag. l. c. — Effusum, ex albo fuscellum, arachnoideum; basidiis atrobrunneis (generis); sporis globosis hyalinis, levibus, 7-8  $\mu$ . d., sterigmatibus brevibus cylindricis, hyalinis.

*Hab.* in cecidiis a Taphrina Cornu-cervi generatis ad folia Aspidii aristati in Nepal.

**AUREOBASIDIUM** Viala et Boyer Rev. gén. Bot. 1891, n. 33, t. III, Zeitschr. f. Paras., 1892, p. 49, c. ic. (Etym. *aureus* et *basidium*)



— Tenue, subbyssinum ex hyphis (aureis) plus minus intricatis, ramosissimis, septatis formatum; basidia pluristerigmica; sporæ cylindraceæ; mycelium matricem intrans (radicicolum). *Hypochno* affine genus.

1. **Aureobasidium Vitis** Viala et Boyer l. c. — Pustulis numerosis, 810 solitariis, parvulis, subaureis; ramulis fertilibus in basidia abeuntibus; sporis in quoque basidio numero variis, sæpius senis, cylindraceis, curvulis  $6-25 \approx 1,5$ .

*Hab.* ad radices Vitis viniferæ in Gallia.

**CYPHELLA** Fr. — Syll. VI, p. 667, et IX, p. 245. Cfr. Grev. XX, p. 9.

1. **Cyphella australiensis** Cooke in Grev. XX, p. 9. — Gregaria, cupuliformis, sessilis, pallida, pilis sericeis adpressis vestita, margine 820 conniventi; disco melleo; sporis  $4-5 \approx 3$ .

*Hab.* ad corticem, Melbourne Australiæ (BERGGREN). — Fungus 1-1,5 mm. diam.

2. **Cyphella texensis** Berk. et Curt., Grev. XX, p. 9. — Cupulata, 821 sessilis, pallida, demum applanata, discoidea, extus pilis subrugosis ornata; sporis ellipsoideis, majusculis.

*Hab.* ad Quercum, Texas Amer. bor. (WRIGHT). — Fungus 1-1,5 mm. diam.

3. **Cyphella longipes** C. et Masee Grev. XXI, p. 38. — Gregaria, 822 membranacea, alba; pileo anguste infundibulari; stipite curvo tenui omnino cavo, supra incrassato et sensim in pileum transeunti; sporis  $7 \approx 6$ .

*Hab.* ad corticem, Queensland Australiæ (BAILEY). — Pileus  $4 \approx 2$  mm.; stipes 5 mm. long.

4. **Cyphella parasitica** Berk. — Syll. VI, p. 685. — \***C. tenerrima** 823 Karst. Hedw. 1895, p. 8.

*Hab.* in Diatrype Stigmatæ parasitica, in Fennia. — A typo differt minutie et pilei margine non inflexo; tota 0,1-0,2 mm. lat. Sporæ  $4-6 \approx 2-3$ .

5. **Cyphella arachnoidea** Peck 44 Rep. p. 22. — Irregulariter cupu- 824 laris, inæqualis, tenuissima, membranacea, tenera, extus minute tomentosa, candida; sporis subglobosis,  $4-5 \approx 4$ .

*Hab.* ad corticem et muscos, Carrollton Amer. bor. — Receptacula 2-4 mm. diam. mycelii portione arachnoidea insidentia.

6. **Cyphella pusilla** Oud. Contr. Myc. Pays-bas XIV, p. 26. — Pileo 825 nutanti dilute sulphureo, compressiusculo, quasi bilabiato, labiis su-

perficuliter incisus, extus flocculis albis sparsis ornatis; stipite albo, basi incrassato, villosus; basidiis clavatis.

*Hab.* ad caules putrescentes Chærophylli hirsuti, Amsterdam. — Pileus 0,5 mm. alt.; stipes 1 mm. long.

7. *Cyphella fissilis* (Fr.) Berk. Herb., Cooke Grev. XX, p. 9, *Can-* 826  
*tharellus* Fr. S. M. I, p. 324, *Peziza membranacea* Alb. Schw.  
Lus. p. 316, t. I, f. 5. — Membranacea vertice porrecto stipitata,  
obverse campanulata, dein multifido-lacera, albida, disco rugoso,  
albido.

*Hab.* ad truncos Fagi etc. in Suecia. — Cupula 4-6 mm. long.  
Teste Berk., hæc differt a *C. lacera*, quacum ab ipso Frieso conjun-  
cta fuit.

8. *Cyphella lateritia* Rostr. Till. Grönl. Svamp. p. 600. — Pileis gre- 827  
gariis e globoso urceolatis, sessilibus, extus fibrillosis, lateritiis, fi-  
brillis granulosis, hymenio levi, pallido.

*Hab.* ad ramulos decorticatos Betulæ odoratæ, Tasermint Groen-  
landiæ. — Pileus 0,5-1 mm. lat.

9. *Cyphella* (Phæocyphella) *Chusqueæ* Pat. Bull. Soc. Myc. 1893, 828  
p. 135. — Subiculo tenui, longitudinaliter valde elongato, tomen-  
toso, rufo-brunneo, ex hyphis brunneis, gracilibus, levibus formato;  
pileis numerosis, gregariis, e globoso urceolatis, pendulis, deorsum  
attenuatis, albidis dein fulvellis, extus villosis; margine integro;  
hymenio rufo; sporis ovoideis, brunneis, levibus 8 ÷ 6.

*Hab.* ad caules putridos Chusqueæ, Æquatoria.

10. *Cyphella* (Phæocyphella) *farinosa* Pat. Bull. Soc. Myc. 1893, p. 135. 829  
— Dense gregaria; subiculo nullo; cupulis sessilibus, urceolato-  
cylindraceutis, pendulis, extus albo-farinosus, ob hyphas breviusculas  
cylindricas velutinis; margine integro, obtuso, recto; hymenio levi,  
rufo-brunneo; sporis ovatis, levibus, pallide brunneis, 10 ÷ 6-7.

*Hab.* ad ligna putrida, Æquatoria.

11. *Cyphella* (Phæocyphella) *euphorbicola* Pat. Bull. Soc. Myc. 1893, 830  
p. 136. — Dense stipata; cupulis furfuraceo-villosis, e globoso cy-  
lindraceutis, sæpe obliquis, candidis dein rufulis, e subiculo continuo,  
tomentoso, orbiculari, crasso, fusco-brunneo, oriundis; sporis sub-  
globosis, levibus, pallide fulvis, 6 ÷ 5.

*Hab.* ad cortices Euphorbiæ, Æquatoria.

12. *Cyphella* (Phæocyphella) *fuscospora* Currey, Grev. XX, p. 9. — 831  
Sparsa, sessilis, minuta, extus alba, tomentosa, intus flavescens, mar-  
gine conniventi; sporis fuscis, subglobosis v. subellipsoideis, pun-  
ctulatis v. granulato-echinulatis, 8-10  $\mu$ . long.

*Hab.* ad corticem, Weybridge Britanniae. — Cupula 200–250  $\mu$ . diam.

13. **Cyphella** (Phæocyphella) **Hibisci** Pat. Bull. Soc. Myc. 1892, p. 48. <sup>832</sup>

— Pileis brevi-stipitatis, numerosis, confertis, in maculas albo-griseas elongatas gregatis; margine revoluti, extus, stipiteque, pilis brevissimis, rigidis, rectis, fasciculatis, rufescentibus, simplicibus, extremitate subacutis conspersis; hymenio concavo, levi, brunneo-rufi; basidiis claviformibus, hyalinis; sporis ovoideis, flavescentibus,  $9 \approx 6$ .

*Hab.* ad cortices Hibisci, Tonkin. — Pileus 0,5 mm. diam.  
*Cyph.* (Phæoc.) *fulvodiscæ* Cooke et Mass. affinis.

*Fam.* 5. **Clavariaceæ** Corda

**CLAVARIA** Vaill. — Syll. VI, p. 692, IX, p. 247. Cfr. Grev. XX, p. 10.

1. **Clavaria incurvata** Morg. Myc. Fl. Miami Vall. Clav. p. 88, t. II, <sup>833</sup>

f. 2. — Truncus crasso, carnoso, albo; ramis ochraceis, extrorsum et sursum incurvis, dichotomice ramosissimis, ramulis effusis, subflexuosis, rugulosis, apicibus dentatis; sporis ochraceis.

*Hab.* ad terram in silvis in valli Miami, Ohio Amer. bor. — Truncus 38 mm. alt., 2,5 cm. cr.; rami et ramuli 5–7,5 cm.

2. **Clavaria holsatica** P. Henn. Pilzfl. Schlesw. I, p. 240 (*Clavariella*). <sup>834</sup>

— Cæspitosa, tenacella, ramosissima, depressa, pallido-ochracea, sæpe albido-pruinosa; ramis brevibus, plerumque flexuosis, inæqualiter divaricatis, confertis; ramulis concoloribus, compressis, apice raro incrassato-obtusis, sæpius acutis, dentatis v. cristatis, laciniis sæpe recurvatis; sporis subglobosis v. ovoideis, lucide olivaceis,  $10 \approx 6-7$  v.  $7-8 \approx 6-6,5$ .

*Hab.* in horto ad Bruhn, Schleswig-Holstein Germaniæ. — *C. corrugata* affinis.

3. **Clavaria palmata** Pers. — Syll. VI, p. 704. — v. **pluridentata** Karst. <sup>835</sup>

Symb. Myc. Fenn. XXX, p. 62 (*Clavariella*). — Ramosissima, lutescenti-alba, siccitate alutacea v. ochraceo-pallida; stipite tenui, ramis divaricatis, verticillato-ramosis, convergentibus, levibus, vulgo subcanaliculatis, sursum incrassatis, compressiusculis, apice pluridentatis albidisque; basidiis hyalinis; sporis ellipsoideis, rectis, levibus  $6-7 \approx 3-4$  ochraceis.

*Hab.* in pinastreto ad Mustialam Fenniae. — Clavulæ 4 cm. alt.; stipes 1 cm. alt. 2–3 mm. cr.

4. **Clavaria madagascariensis** P. Henn. F. Afr. II, p. 22. — Carnosa, <sup>836</sup>

ramosa, ochracea; ramis strictis elongatis, confertis, compressis, ru-

gosis, ramulis repetito-partitis, strictis, sæpe divergentibus, apicibus obtusis v. cristato-multifidis; sporis subhyalinis, flavescentibus, oblongis, curvatis, apiculatis, 11-14  $\approx$  4-6.

*Hab.* in Madagascar. — Clavulæ usque ad 7 cm. alt. *C. aureæ* Schaeff. affinis.

5. *Clavaria decolorans* Karst. Symb. Myc. Fenn. XXXII, p. 8 (*Clavariella*) *Cl. fennica* Karst. Basidsv. I, p. 47, nec Hattsv. II, p. 186. 837  
— Ramosissima, tenax, elastica; clavula ex albido pallide flavescente, basi subvillosa; ramis ramosissimis, dichotomis v. subverticillatis, sublinearibus, teretibus, stipatis, flavidis; ramulis irregulariter verticillatis v. dichotomis, subfastigiatis, strictis, superne incrassatis, flavis, apice saturate flavis; sporis oblongis, dilute flavescentibus, 10-20  $\approx$  4-6.

*Hab.* in Fennia pr. Mustiala. — Usque ad 14 cm. alt., 11 cm. lat. *C. testaceo-rufæ* Bres. affinis.

6. *Clavaria divaricata* Karst. Symb. Myc. Fenn. XXXII, p. 8 (*Clavariella*). 838  
— Ramosissima, sat tenax; trunco glabro, rufescenti pallido; ramis divaricatis, dichotomis v. subverticillatis, subfastigiatis, sublevibus, obtusis, rufis, apice primitus alutaceis; sporis ovoideis v. ovatis, sæpe inæquilateralibus, ochraceis, hyalinis (sub lente) 6-10  $\approx$  4-6.

*Hab.* in silvis abiegnis, in Fennia. — Usque ad 9 cm. alt., 6 cm. lat.

7. *Clavaria Patouillardii* Bres. F. Trid. II, p. 39, t. 145, f. 2. — 839  
Flaccida; stipite tenui, albo-tomentoso, basi radiculis albis, folia incrustantibus prædito, ramosissimo; ramis dichotomis, compressis, argillaceo-fusculis, apicibus acutis, varie dentatis, ex albo citrinis, demum exsiccano subvirescentibus; sporis hyalinis elongato-subvirgulæformibus, 8-10  $\approx$  2-2,5; basidiis clavatis 40-50  $\approx$  7-8.

*Hab.* in silvis pr. Tridentum. — Stipes 1-1,5 cm. long., 2-5 mm. cr. *C. flaccidæ* et *C. subtili* proxima.

8. *Clavaria Herveyi* Peck 45 Rep. p. 24, — Gregaria v. subcæspitosa, simplex v. parce ramosa, sæpe compressa v. irregularis, aurea, apice subinde brunneolo, contextu albo; ramis (dum præsentibus) brevibus, simplicibus v. denticulis paucis, plus minus acutis terminatis; sporis globosis 7,5  $\mu$ . diam., minute rugosis; hyalinis mycelio albo. 840

*Hab.* ad terram, Orono, Maine Amer. bor. (F. L. HERVEY). — Fungus 2,5 cm. alt. *C. fastigiata* et *C. muscoidi* affinis.

9. *Clavaria scleroticola* A. Allesch. Verz. d. Südbay. Pilz. p. 65. — 841

*Sclerotio plano, ellipsoideo v. fusoides sed sæpius irregulariter expanso; trunco simplici, sæpe irregulariter pauciramoso, filiformi-subulato, acuto, glabro, albo, basi non angustato; sporis ovoideis, sæpe piriformibus, hyalinis, aliis eguttatis et 8-10  $\approx$  5-6, aliis 2-guttatis, 8-14  $\approx$  2-5.*

*Hab.* ad caules putridos Lunariæ redivivæ et Urticæ dioicæ pr. Oberammergau in Bavaria australi.

10. **Clavaria Bresadolæ** Cav. Myc. Lomb. p. 8, Tav. 26, f. 6-8. — 842

*Gregaria, parvula, læte lilacina, tenacella; stipite initio cylindrico, apice attenuato obtusoque, albido, dein plus minus compresso, sursum bi-trifurcato v. digitato, ramulis truncatis, puberulis; basidiis clavatis, tetrasporis, paraphysibus tortuosis, cylindræis, comixtis; sporis sphaericis, levibus 4-5  $\mu$ . diam.*

*Hab.* ad terram inter Filices in Horto botanico papiensi. Ital. bor.

11. **Clavaria rubescens** Quél. Rev. Myc. 1892, p. 65 (*Ramaria*). — 843

*Clavula farcta, cylindræa v. compressa, simplice v. ramosa, vertice acuminato, obtusa, crassa v. interdum umbilicata, basim versus attenuata et tortuosa, albido-rubescenti.*

*Hab.* gregaria ad humum in silvis, in Gallia. — Varietas *C. rugosæ* videtur.

12. **Clavaria Brondæi** Quél. Rev. Myc. 1892, p. 65. — Clavula fu- 844

*siformi, tenui, vertice acuta, in stipitem brevissimum, pruinose, candidum attenuata.*

*Hab.* ad terram in silvis, inter muscos in Gallia. — Clavula 3-5 mm.; stipes 1 mm. long. *C. Bresadolæ* affinis.

13. **Clavaria Bresadolæ** Quél. Fl. Myc. pag. 458, Bres. F. Trid. II, 845

p. 40, t. 146, f. 2. — Densè gregaria; clavulis subulatis, pruinose-flocculosis, albidis demum subochraceis, apicibus interdum virescentibus, basi fibrillis albis radiantibus ligno affixis; sporis hyalinis, e globoso ovoideo-ellipticis, 8-10  $\approx$  5-6; basidiis clavatis, 40-45  $\approx$  8-10.

*Hab.* ad truncos mucidos laricinos, Val di Sole agri Tridentini — Clavulæ 6-8 mm. long., 0,5 mm. cr. Ad *Hydna* vergit.

14. **Clavaria Daulnoyæ** Quél. Champ. Jura Suppl. XVIII, p. 7, t. III, 846

f. 36. — Simplex, basi fasciculata, clavula crassa, apice rotundata, e farcto cava, pruinosa, griseo-alba dein subfuliginea; stipite gracili æquilongo, glabro, albido, basi villosulo albidoque; sporis ellipsoideis, hyalinis 8-9  $\mu$ . long.

*Hab.* ad terram argillosam, Jura Galliæ (Domina V. DAULNOY). — Clavula 3 cm. lat., 3-5 mm. alt. *C. falcatæ* affinis.

15. *Clavaria Braunii* P. Henn. F. Afr. II, p. 22. — Simplex, minima, 847  
carnosa, gregaria, clavula liguliformi v. spathulata, late compressa, interdum dorso carinata, apice obtusa, levi, aurantiaca; stipite brevi; sporis ellipticis, hyalinis 7-8  $\approx$  5-5.

*Hab.* in Madagascar. — Clavula usque ad 2,5 mm. alt., 1-1,5 mm. cr. *C. paludicolæ* Lib. affinis.

16. *Clavaria geoglossoides* Boud. et Pat. Bull. Soc. Myc. 1892, p. 42. 848  
t. VI, f. I. — Simplex rarius cæspitosa, clavulis primo cylindraceis dein compressis, medio sulcatis, ad apicem latioribus, simplicibus rarius 2-3 divisus et pro more striolatis, hymenio a stipite pæne distincto, pulchre luteo; stipite ad basim attenuato, albedo dein lutescenti, glabro non nitido; sporis rotundato-ovoideis, levibus, hyalinis v. sublutescentibus, 6-7  $\approx$  4-6.

*Hab.* in graminosis arenosis prope Rouen Galliæ. — Usque ad 7-10 cm. alt. *C. simili* affinis.

17. *Clavaria tonkinensis* Pat. Bull. Soc. Myc. 1892, p. 49. — Clavula 849  
solitaria, simplici, recta, cylindrica, apice obtusa, basi subinflata, glabra, pellucida, carnosa, omnino brunneo-pallida.

*Hab.* ad terram, Tonkin. — Tota 3-4 cm. alt., 2-3 mm. cr.

18. *Clavaria luteo-ochracea* Cav. Fung. Long. n. 64. — Gregaria, 850  
fragilis, lutescens; clavulis cylindraceis, simplicibus, raro bifurcatis v. spathulato-compressis v. striatis, glabris, 2-5 cm. altis; stipite rufo-ochraceo; basidiis dense stipatis, 30  $\approx$  5-6, 4-sterigmati-  
cis; sporis globosis v. ellipsoideis, basi oblique acuminatis, levibus, uniguttulatis 4-5  $\approx$  3-4.

*Hab.* in Sphagnis ad vasa Filicum in Horto botanico, Pavia Ital. bor.

19. *Clavaria Macouni* Peck 47 Rep. p. 24. — Clavulis singulis v. fasciculatis, 12-20 mm. alt., obtusis v. subacutis, fumose viridi-flavis v. subcinereis; sporis minutis, ellipsoideis, 5  $\approx$  3. 851

*Hab.* in muscosis sub Cedris, Canada (MACOUN). — E sect. *Syn-coryne*.

20. *Clavaria tasmanica* Berk. in Herb., Grev. XX, pag. 10. — Clavata, 852  
vata, simplex, 4 cm. longa, solitaria v. binis ternisve aggregatis, fuliginea, basi mycelio floccoso, albo, cincta; stipite tenui, pallido, leviter flexuoso; sporis subglobosis 8  $\mu$ . diam.

*Hab.* in ligno putri, stipitibus filicum etc. in Tasmania.

21. *Clavaria Muelleri* Berk. Grev. XX, p. 10. — Simplex, clavata, 853  
alba, gracilis, 2-3 cm. long., deorsum in stipitem exilem cylindraceum attenuata, apice obtuso.



*Hab.* ad terram, Victoria, Queensland Australiæ.

22. **Clavaria Lecomtei** Pat. Journ. de bot. 1895, p. 366. — Corticicola; 854  
mycelio albo-fuscescenti, tenuissimo, crustaceo-membranaceo, fibrilloso-himantioideo in strata late effusa intricato; clavulis erectis, tenacibus, in mycelio sparsis v. parce gregariis, 8-15 mm. longis, filiformi-setaceis, apice acutis, vix  $\frac{1}{2}$  mm. crassis, simplicibus, e tuberculo enatis, rufis vel luteolis (in sicco) opacis v. pellucidis, glabris.

*Hab.* ad cortices, Kitabi, Congo (LECOMTE). — *Cl. junceæ* proxima, habitu fere *Calocercæ*.

23. **Clavaria subflava** Britz. Hym. Südbayer VIII, p. 14, f. 61. 855

*Hab.* in silvaticis Baviariæ australis. — Dilute flava, infra alba; sporæ 6-8  $\approx$  4.

24. **Clavaria subfastigiata** Britz. Hym. Südbayer VIII, p. 14, f. 43, 64. 856

*Hab.* ad sepes Baviariæ australis. — Tota flavido-alba; sporæ 10  $\approx$  8.

25. **Clavaria clavæformis** Britz. Hym. Südbayer VIII, p. 14, f. 67. 857

*Hab.* in silvaticis Baviariæ australis. — Tota flava; sporæ 10  $\approx$  7-8. *C. rugosæ* et *C. cristatæ* affinis.

26. **Clavaria pseudo-flava** Britz. Hym. Südbayer VIII, 14, f. 62. 858

*Hab.* in silvaticis Baviariæ australis. — Tota ochroleuca; sporæ 8-10  $\approx$  8, hyalinæ.

27. **Clavaria exstans** Britz. Hym. Südbayer IX, p. 21, f. 79. 859

*Hab.* in silvaticis Baviariæ australis. — Albo-flavida; sporæ 6  $\approx$  3-4. *C. Künzei* affinis.

28. **Clavaria oblectanea** Britz. Hym. Südbayer X, p. 149, f. 87. 860

*Hab.* in silvaticis pineis Baviariæ australis. — Ochraceo-flava; sporæ flavidæ, oblongæ, spinulosæ. *C. testaceo-flavæ* affinis.

29. **Clavaria rivalis** Britz. Hym. Südbayer VI, p. 33, fig. 49. 861

*Hab.* in silvaticis Baviariæ australis. — Sordide albida, flavida v. griseo-maculata; sporæ 16-18  $\approx$  8-10, asperæ.

30. **Clavaria argillosa** Britz. Hym. Südbayer VIII, f. 32. 862

*Hab.* in silvaticis Baviariæ australis. — Clavæ albidæ, basi flavicantes, apice rubentes; sporæ 10-12  $\approx$  6-8.

31. **Clavaria gracilior** Britz. Hym. Südbayer VII, p. 15, f. 74 et IX, p. 22, f. 84. 863

*Hab.* ad sepes Baviariæ australis. — Clavæ totæ albæ, apice flavidæ; sporæ 6-8  $\approx$  3-4.

32. **Clavaria subfastigiata** Britz. Hym. Südbayer IX, pag. 21, f. 43, 64, 78. 864

*Hab.* in silvaticis Bavarix australis. — Pallide rubro-flava; sporæ 10  $\approx$  8.

**ACURTIS** Fr. — Syll. VI, p. 691. — Sec. Berkeley Garden. Chron. Mart. 1877 et Cooke Grev. XX, pag. 11, fungus hic esset forma abortiva monstrosa *Lentini tigrini*. Cfr. Arcangeli (in Nuovo Giorn. bot. ital. genn. 1895, cum tabula) qui exemplar teratologicum clavarioideum *Lentini* ex Etruria describit, sed de identitate sui cum forma Schweinitziana recte dubitat.

**LACHNOCLADIUM** Lév. — Syll. VI, p. 738, IX, p. 252.

1. *Lachnocladium Kurzii* Berk. in Herb., Cooke Grev. XX, p. 11. — 865  
Nigrescens, 3 cm. alt., erectum, dense cæspitosum, ramosissimum, gracile, rigidum; ramulis cylindraceis, ultimis tenuibus, subobtusis.

*Hab.* ad terram, Java (Kurz).

2. *Lachnocladium rubiginosum* Berk. et Curt. in Herb., Cooke Grev. 866  
XX, p. 11. — Rubiginosum, breviter stipitatum, 8 cm. alt., ramosissimum, cylindraceum, dense velutinum; ramis repetito-dichotomis, ramulis ultimis subulatis acutis.

*Hab.* ad truncos Venezuelæ. — Pubescentia ex setulis brunneis, rigidulis, hymenochætoideis pendet.

3. *Lachnocladium Ulei* P. Henn. Hedw. 1892, p. 98. — Conferte cæ- 867  
spitosum, ochraceum, ferrugineo-pruinatum; stipite tereti, subflexuoso; ramis repetito-dichotomis, tenacellis, axillis late compressis arcuatis; ramulis subulato-acutis usque ad 1 cm. longis; sporis ellipsoideis v. ovoideo-apiculatis, fuscidulis, 5-6  $\approx$  4-5.

*Hab.* ad truncos emortuos in silvis, in Brasilia. — Stipes usque ad 2 cm. long., 2 mm. cr. *L. Molleriano* affine.

4. *Lachnocladium Warburgii* P. Henn. Fung. Warburgiani, pag. 218. 868  
— Ramosissimum pallide ochraceum subtomentosum, compressum, ramis repetito-dichotomis, subrugulosis, axillis arcuatis, apicibus subulatis; stipite brevi; sporis ellipsoideis, subflavidis, 6-8  $\approx$  4-4,5.

*Hab.* in insula Bonin Oceani Pacifici.

5. *Lachnocladium tonkinense* Pat. Journ. Bot. 1891, p. 314, t. IV, f. 5. 869  
— Mycelio floccoso, albo, abundanti, ad superficiem stipitis membranam efformanti; stipite recto, basi albido, ceterum rufescenti, in ramulos dichotome diviso; ramulis cylindraceis, flavo-brunnescentibus, vix ad juncturas striatis, una parte levibus, altera pulverulento-ochraceis; sporis ovoideis, levibus, flavidis.

*Hab.* ad caules emortuos Monocotyledonearum, Tonkin. — *L. rameali* Berk. affine.

6. *Lachnocladium Schweinfurthianum* P. Henn. F. Afr. II, pag. 21, 870  
t. I, f. 4. — Coriaceum, tenax; stipite simplici crasso, subtereti,  
lignoso, tuberculoso, alutaceo, ramis plurimis cuneatis, compressis,  
ramosissimis, velutinis, ramulis repetito bi-trichotomis, axillis fla-  
bellatis v. late fastigiatis, apicibus subulatis, velutinis; sporis non  
visis.

*Hab.* in Africa centrali. — Clavula usque ad 2 cm. alt., 5  
mm. cr.

7. *Lachnocladium Lauterbachii* P. Henn. Fung. novoguin. II, p. 25. — 871  
Coriaceum, tenax, cæspitosum usque ad 10 cm. long., ochraceum,  
albo-pruinose, stipitibus basi connatis, incrassatis dein ramosis,  
ramis repetito-dichotomis, rugulosis, axillis arcuatis compressis,  
apicibus subulatis v. subbifidis; sporis ellipsoideis, apiculatis v. fu-  
sciculatis, levibus 7-8 = 5-4.

*Hab.* in ligno vetusto Novæ Guineæ.

**PTERULA** Fr. — Syll. VI, p. 740, IX, p. 255.

1. *Pterula Bresadoleana* P. Henn. F. Afr. II, p. 22. — Densissima, 872  
ramosissima, striata, stipitata, glabra, cornea, brunneo-rufa v. sub-  
alutacea, basi non tomentosa; stipitibus usque ad 2 cm. long. v.  
basi ramosis; ramis subcompressis dichotomis v. fasciculatis, ra-  
mulis v. simplicibus v. repetito-dichotomis, axillis compressis, api-  
cibus subulatis, flexuosis; sporis subglobosis, levibus, hyalinis, 4-5  
µ. diam.

*Hab.* in Africa centrali. — Clavula usque ad 7 cm. alt.

**HIRSUTELLA** Pat. Rev. Myc. 1892, p. 69 (Ety. *hirsutus* ob habi-  
tum fungi). — Fungi homobasidii, clavariæformes, simplices v. ra-  
mosi, recti, rigidi, subcoriacei; hymenium amphigenum, disjunctum;  
basidia sessilia v. subsessilia; sterigmata 1-2, subulata, prælonga;  
sporæ hyalinæ continuæ. — Præsertim sterigmatibus ratione longis-  
simis, consistentia clavulæ durioris distinguendum genus. *Pterula*  
*setosa* Peck et *Typhula gracilis* B. et Desm. generi *Hirsutellæ*  
adscribendæ sunt.

1. *Hirsutella entomophila* Pat. Rev. Myc. 1892, p. 69. — Clavulis 873  
numerosis, parvis, gracilibus, rigidis, simplicibus, cylindræis, apice  
acutis et sterilibus, griseo-violascentibus extremitate albescentibus;  
basidiis subsessilibus, ovoideis, sterigmatibus in quoque basidio so-  
litariis, subulatis, 30-45 µ. longis; sporis citriformibus 8 = 6, hyalinis.

*Hab.* in Coleoptero adulto, *Pallatanga* Æquatoris (LAGERHEIM).

**TYPHULA** Pers. — Syll. VI, p. 743, IX, p. 255.

1. *Typhula Asphodeli* Pat. Journ. de bot. 1894, p. 220. — Sparsa; 874  
clavulis ellipticis v. cylindræis apice obtusis, albis, minutis; stipite gracili, subglabro, albo dein inferne rufescenti, e sclerotio applanato brunneo, exiguo subepidermico oriundo; sporis ovoideis hyalinis 5-7  $\approx$  3.

*Hab.* in foliis putridis *Asphodeli*, El Feidja Tunisiæ. — Affinis *T. gyranti*.

2. *Typhula subplacorrhiza* Britz. Hym. Südbayer VIII, p. 15, f. 77-78. 875

*Hab.* in silvaticis Bavariæ australis. — Gregaria, flavo-brunneola; sporæ 13-16  $\approx$  4,5-6.

**PISTILLARIA** Fr. — Syll. VI, p. 752, IX, p. 255.

1. *Pistillaria Bartholomæi* Ell. et Ev., Proceed. Acad. Nat. Sc. Philad. 876  
1893, p. 441. — Gregaria, atro-carnea, brevis, subcylindræa v. compressa, apice obtuse acuminata, deorsum saturatior, sæpius in stipitem non attenuata; basidiis cylindræis, 10-12  $\approx$  2-2,5; sporis globosis, 2-3  $\mu$ . diam.

*Hab.* in caulibus emortuis *Callirrhœs* involucrati, Rockport, Kansas Amer. bor. — Fungus 1 mm. alt.

2. *Pistillaria Amansii* (Brond.) Sacc. *Phacorrhiza* Brond. Rec. pl. 877  
crypt. I, p. 10, t. I. — Gregaria; clavulis cylindræis, albis et tuberculo ochraceo, sinuato-rugoso, fasciculatim emergentibus.

*Hab.* in *Populi* nigræ foliis deciduis, S. Amans, in Gallia. — Ex ipso Fries S. M. Ind. forte *Pistillariæ* nova species, tamen serius ab eo non relata.

3. *Pistillaria cylindræa* Karst. in Hedw. 1892, p. 301. — Clavula 878  
lineari v. cylindræa, levi, obtusiuscula, glabra, alba dein flavescenti, recta, stipite vix distincto; sporis ellipsoideis v. ovoideis 6-10  $\approx$  3-5.

*Hab.* ad folia *Alni* incanæ, Mustialæ. — Clavula 4-5 mm. alt.

4. *Pistillaria fulvida* Karst. in Hedwigia 1892, p. 301. — Clavula 879  
cylindræo-clavulata, levi, glabra, fulvescenti, basi brunnescenti; stipite indistincto.

*Hab.* ad folia *Corni* sanguinæ, Mustialæ. — Clavula 2 mm. alt.

5. *Pistillaria Ferryi* Quél. et Fautrey Rev. Myc. 1893, p. 15 (*Cera- 880*  
*tella*). — Clavula capillari, ad stipitem attenuata, pubescenti, alba, sicca succinea, acumine sterili glabro, hyalino; mycelio radiato, sericeo, albo; stipite brevi, basi sæpe inflato; basidiis sterigmatibus 2 præditis; sporis ovoideis 10  $\approx$  4.

*Hab.* ad culmos siccos Coicis Lacrymæ, Noidan Galliæ (FAUTREY). — Clavula 5–10 mm. longa, acumine sterili 1 mm. long.; stipites subinde 2 ex eadem basi.

6. *Pistillaria macrospora* Pat. Bull. Soc. Myc. 1892, p. 119 (*Cera- 881*  
*tella*). — Pusilla, sparsa v. gregaria, simplex v. furcata, filiformis, undique basidifera, apice acuminato, sterili, contextu filamentoso, sub lente pallide brunneo; basidiis 2-sterigmaticis, 18–20  $\approx$  8–10; sporis hyalinis 18–20  $\approx$  10–12.

*Hab.* ad ramulos emortuos, Guápolo Æquatoriæ. — *C. rosellæ* Fr. affinis; 1 mm. alt.

7. *Pistillaria rubra* Fautr. et Ferry Rev. Myc. 1893, p. 22 (*Pistillina*). 882  
— Pileo hemisphærico rufo, hymenio oblecto, corona dentata marginato; stipite brevi, pleno, apice dilatato, in pileum sensim producto; basidiis coacervatis; sporis hyalinis, pruniformibus, elongatis, 12–14  $\approx$  4–5.

*Hab.* ad ramulos Sarothamni scoparii, Côte d'Or, in Gallia.

8. *Pistillaria Cytisi* Pat. Journ. de bot. 1894, p. 220. — Tota alba, 883  
3–5 mm. alta, gregaria, clavula forma varia, globosa, ovoidea, spatulata; sporis hyalinis 10  $\approx$  5; sclerotio nullo.

*Hab.* in ramulis emortuis Cytisi triflori, El Feidja Tunisiæ.

**GLOIOCEPHALA** Mass. Grev. XXI, 1892, p. 33 (Etym. *glæos* gluten et *cephalos* caput). — Fungi disciformi-pileati, centro stipitati, superne processibus exsertis, cylindraccis muciparis præditi. Hymenium superficiem inferiorem disci obtegens. Basidia 1-spora. Sporæ hyalinæ, globosæ.

1. *Gloiocephala epiphylla* Masee l. c. cum icone. — Pileo tenuissimo, 884  
plano v. centro subdepresso, albido, opalescenti; basidiis fusoidis, 16–18  $\approx$  4; sporis globosis, hyalinis, levibus, 3  $\mu$ . diam.

*Hab.* ad folia emortua, Jamaica. — Pileus 1–2 mm. diam.; stipites circ. 2 mm. long., gracilis, brunneolus, sursum subattenuatus. Processus mucipari, seu cystidia 60–100  $\approx$  15–20.

#### Fam. 6. Tremellaceæ Fr.

**PROTOMERULIUS** A. Möller Bras. Pilzblum. p. 60 (nota) (Etym. *protos* primus et *Merulius*). — Characteres *Merulii* sed basidia sphæroidæ quadripartita Tremellacearum; sporæ e quaque cellula basidiorum singulatim oriundæ, sterigmate fultæ.

1. *Protomerulius brasiliensis* Möller l. c. — Albus, demum sordide 885

flavicans; basidiis 7-8  $\mu$ . diam.; sterigmatibus 7-8  $\mu$ . long.; sporis ovoideis 4-5  $\mu$ . longis.

*Hab.* in truncis dejectis emortuis Jaracatiæ dodecaphyllæ pr. Blumenau Brasiliæ.

**AURICULARIA** Bull. — Syll. VI, p. 762.

1. *Auricularia epitricha* Berk. in Herb., Cooke Grev. XX, p. 15 886  
*ricularia Carteri* Berk. — Suborbicularis, gregaria, margine recurvo, subtus pallido, velutino hymenio umbrino, subolivascenti, levi, pruinoso; sporis 5  $\approx$  4.

*Hab.* ad cortices, Bombay, Neilgherries Indiæ.

2. *Auricularia Corium* Berk. in Herb., Cooke Grev. XX, p. 15. — 887  
Pileo effuso-reflexo, sublobato v. crenulato, villosa, fasciato-zonato, cervino; hymenio atro-purpureo, plicis distinctissime reticulato-venoso; sporis subglobosis 7  $\mu$ . diam.

*Hab.* ad truncos emortuos, in insula Mauritius.

3. *Auricularia Emigi* P. Henn. F. Afr. II, p. 19, tab. I, f. 2. — 888  
Sessilis, ampla, conchiformis dein explanata; pileo semiorbiculari, extus dense tomentoso, squarroso, molli, cinnamomeo, setis fasciculatis usque ad 7 mm. long., ramosis, depressis, margine sinuoso, fimbriato; hymenio velutino pruinoso, concolore, interdum dein nudo, nigrescenti, vix plicato, raro venoso.

*Hab.* in Africa centrali, ad ligna. — Pileus usque ad 9 cm. lat., 5 cm. long. *A. mesentericæ* et *A. nigræ* affinis.

4. *Auricularia squamosa* Pat. et Hariot, Bull. Soc. Myc. 1893, p. 210. 889  
— Eximie cæspitosa, magna, sessilis, convexa, undique squamis confertis, latis, suberectis, chartaceis onusta, rufo-brunnea; margine acuto, integro, ciliato-squamoso; hymenio concavo, glaucescenti, pruina rufo-brunnea consperso.

*Hab.* in regione Congoana Africæ (Dybowski).

5. *Auricularia euphorbicola* Pat. Bull. Soc. Myc. 1893, p. 137. — 890  
Sparsa, pendula cupuliformis, vertice in stipitem brevem attenuata, extus rufescenti grisea, brevissime velutina, venis flexuosis, radiantibus, strictis, numerosis, ramosis anastomosantibusque, hirsutis, undique tecta; hymenio concavo, levi, purpureo-atro, albo-pruinoso; sporis hyalinis, curvulis, 16-18  $\approx$  5-7.

*Hab.* ad truncos Euphorbiæ, in Æquatoria. — *A. protractæ* Lév. affinis.



**HIRNEOLA** Fr. — Syll. VI, p. 764.

- 1 **Hirneola Auricula-Judæ** (L.) Berk. — Syll. VI, p. 766. — var. **mauritiensis** P. Henn. F. Afr. II, p. 19. — Stipitata v. lateraliter affixa; pileo reniformi, margine integro, tenui, cinereo, velutino usque ad 5 cm. lat.; hymenio atro-cœruleo, glabro, interdum venoso-plicato; stipite brevi.

*Hab.* ad truncos, in insula Mauritius.

**HETEROCHÆTE** Pat. Bull. Soc. Myc. 1892, p. 120 (Ety. *heteros* varius et *chæte* pilus). — Fungi heterobasidiospori, effusi, membranaceo-floccosi v. coriaceo-gelatinosi, undique setulosi, setulis sterilibus; basidia globoso-ovoidea, cruciatim partita, apice sterigmata bina v. quaterna gerentia; sporæ continuæ, hyalinæ, rectæ v. curvulæ, germinatione promycelium emittentes in conidium unicum apice productum.

1. **Heterochæte andina** Pat. l. c. t. XI, f. I. — Tenuissima, arcte adnata, albo-lutescens, margine stricto, sericeo, albo, hymenio floccoso, leviter gelatinoso; setulis albidis, sparsis v. glomeratis, apice fimbriatis; sporis cylindraceo-curvulis, 14-18  $\approx$  4.

*Hab.* ad ligna emortua, Cotacallao, Æquatoria. — Pileus 5-12 cm. lat., setulæ 150-200  $\approx$  30-40.

2. **Heterochæte gelatinosa** (B. et C.) Pat. l. c. *Kneiffia* Berk. et C. — Syll. VI, p. 510.

*Hab.* ad truncos Pruni salicifoliæ, Quito. — Sporæ ovato-elongatæ 20-25  $\approx$  8-10.

3. **Heterochæte tonkiniana** Pat. Champ. Asiat. p. 2. — Albida unicolor, tenuissima, resupinata, arcte adnata, aspera, primitus sparsa, orbicularis, dein confluens, plagas effusas efformans; hymenio subfloccoso; basidiis sparsis, ovatis, cruciatim septatis, hyalinis, intus guttatis; aculeis brevibus, integris, rectis, albido-fuscis, acutis.

*Hab.* ad ramos Dilleniacearum, Tonkin. — Pileus 1-2 cm. lat. *H. andinæ* affinis.

4. **Heterochæte livida** Pat. Bull. Soc. Myc. 1893, p. 139. — Pileo resupinato, tenui, arcte adnato, late effuso, sicco, livido-ochraceo, rugoso plus minus sinuoso, margine rufulo; setulis rigidis, crassis, difformibus, cylindraceis, apice truncatis sæpe excavatis, farinosis, in soros congestis; interstitiis levibus, glabriusculis; sporis hyalinis 12-14  $\approx$  5-6.

*Hab.* ad ramos emortuos Ilicis scopulorum, Æquatoria. — Pileus 10 cm. alt. 4 cm. lat., setulæ 0,2 mm. alt.

5. **Heterochæte minuta** Pat. l. c. p. 139. — Resupinata, orbicularis, <sup>895</sup>  
sparsa, alba, tenuis, farinosa, margine nullo; setulis numerosis, sparsis, erectis, flexuosis, mollibus, cylindræis, pruinosis, albidis; hymenio pulverulento, basidiis ovoideo-globosis; sporis ovoideis reniformibus, 16-18  $\approx$  5-6.

*Hab.* ad terram, Æquatoria. — *Hydno farinaceo* similis; setulæ 200-400  $\approx$  30-60.

6. **Heterochæte ochracea** Pat. l. c. p. 140. — Resupinata, adnata, <sup>896</sup>  
late effusa, sicca, ochracea, margine albo-pulverulento, evanescente; setulis numerosissimis, mollibus, confertis, longiusculis, cylindræis, albidis, apice cystidiis hyalinis, acutis, rugosis, ciliolatis; basidiis ovoideis; sporis hyalinis, 13-15  $\approx$  5.

*Hab.* ad ligna vetusta, S. Jorge Æquatoriæ. — Setulæ 200-300  $\approx$  30-60.

7. **Heterochæte Kneiffopsis** Pat. l. c. p. 140. — Resupinata, arcte <sup>897</sup>  
adnata, tenuis, sicca, late expansa, rimosa, albido-ochracea, margine albo-pulverulento, evanescente, setulis numerosis, granuliformibus, brevibus, crassiusculis, albidis, obtusis, apice pilosis; sporis hyalinis, 10  $\approx$  5.

*Hab.* ad ligna emortua, S. Jorge Æquatoriæ. — Setulæ 80-100  $\approx$  40.

8. **Heterochæte albida** Pat. l. c. p. 140. — Resupinata, incrustans, <sup>898</sup>  
adnata, crassa, immarginata, late effusa, albida, gelatinoso-coriacea, opaca; setulis minutis, sparsis, albis, apice acutatis, cystidiis acutis ciliolatis; hymenio pruinoso, albo; basidiis ovoideis; sporis hyalinis 16  $\approx$  6.

*Hab.* ad ligna decorticata, Æquatoria. — Cystidia 100-120  $\approx$  30.

9. **Heterochæte livido-fusca** Pat. l. c. p. 140. — Resupinata, incru- <sup>899</sup>  
stans, adnata, crassiuscula, latissime effusa, coriaceo-subgelatinosa, cinereo-fusca, margine lato, fusco, membranaceo; setulis sparsis, minutis, obtusis, subhyalinis, hymenio pruinoso, basidiis ovato-clavatis; sporis ovoideis, subrectis, 20-24  $\approx$  10.

*Hab.* ad cortices, Æquatoria. — Setulæ 150  $\approx$  40-50.

**HELICOGLOEA** Pat. Bull. Soc. Myc. 1892, p. 121 (Etym. *helix* et *gloeos* gluten). — Pileus homogeneous, gelatinosus, effusus, superficialis, hymenio levi undique vestitus; basidia longissime e recte cylindrico varie flexuoso-incurvata, transverse septata et in convexa parte plura sterigmata gerentia; sporæ ovoideæ, hyalinæ, sub germinatione filamentum brevissimum emittentes, in conidium uni-

cum sporisque simillimum apice productum. Gen. *Helicobasidio* proximum, sed gelatinosum.

1. *Helicoglœa Lagerheimii* Pat. l. c. t. XI, f. II. — Pileo mollissimo, 900  
tenui, effuso, hyalino, plus minusve tuberculoso, cinereo, contextu  
ex hyphis ramosis, septatis, laxissime intricatis, mollibus, hyalinis  
composito; basidiis apice obtusis, deorsum attenuatis, 3-4-sporis;  
sporis hyalinis 15  $\approx$  7-3.

*Hab.* ad ligna putrida in Æquatoria. — Pileus 0,5 mm. cr.,  
4-5 cm. lat.

**PLATYGLÆA** Schroet. — Syll. VI, p. 771.

1. *Platyglœa succinea* Pat. Bull. Soc. Myc. 1893, p. 137, t. VIII, f. 2. 901  
— Receptaculis gelatinoso-coriaceis, flavo-aurantiacis, pellucidis,  
orbicularibus, plus minus sinuosis, liberis, applanatis, puncto dor-  
suali adfixis, hymenio venoso-plicato; basidiis cylindræis 2-3-se-  
ptatis, ad septa constrictis 40-50  $\approx$  6; sporis ovoideis, hyalinis, 10-  
12  $\approx$  8.

*Hab.* ad ramulos emortuos Melastomæ, in Æquatoria. — Cla-  
vulæ 1 cm. lat.

2. *Platyglœa Cissi* Pat. Bull. Soc. Myc. 1893, p. 137, tab. VIII, f. 3. 902  
— Receptaculis minutis, effusis, applanatis, superficialibus, sparsis,  
gelatinosis, albis; basidiis cylindræis apice obtusis, inferne attenua-  
tis ad septa constrictis, 3-septatis, 100-130  $\approx$  8-10; sporis hyalinis  
reniformibus, 30  $\approx$  8.

*Hab.* ad ramos siccos Cissi rhombifoliæ, in Æquatoria.

3. *Platyglœa carnea* Pat. Bull. Soc. Myc. 1893, p. 138, t. VIII, f. IV. 903  
— Receptaculis superficialibus, orbiculariter effusis, margine sinuoso,  
plano-convexis, sessilibus, puncto dorsuali adfixis, succineo-roseis,  
gelatinosis; hymenio venoso; basidiis linearibus, elongatis 90  $\approx$  5,  
3-septatis; sporis ovoideis, hyalinis 10  $\approx$  5.

*Hab.* ad ramulos putridos in Æquatoria. — Fungus 0,5 cm. lat.

**EXIDIA** Fr. — Syll. VI, p. 772, IX, p. 257.

1. *Exidia Benieri* Pat. Journ. de bot. 1894, p. 221. — Tenuis, effusa, 904  
orbicularis v. elliptica, adnata; hymenio plicato-cerebriformi, alveo-  
lato v. levi, brunneo; basidiis ovoideis, verticaliter 1-2-septatis,  
17-20  $\approx$  13, sterigmatibus prælongis; sporis hyalinis, curvulis, 14-  
16  $\approx$  6.

*Hab.* in cortice Lauri nobilis, El Feidja Tunisiæ.

2. *Exidia alveolata* Pat. Bull. Soc. Myc. 1893, p. 139. — Resupi- 905

nata, effusa, pellucida, pallide fuliginosa, membranacea, leviter gelatinosa, subtus glabra, levis; hymenio irregulariter alveolato, non glanduloso; basidiis hyalinis, ovoideis, cruciatim 4-septatis,  $17 \approx 10$ ; sporis hyalinis, cylindraceutis,  $12 \approx 5$ .

*Hab.* ad cortices, in Æquatoria. — Fungus 3-4 cm. long., 2 cm. lat.; *Ulocollæ saccharinæ* analoga, hymenio *Auriculariæ tremellosæ* similis.

3. *Exidia albida* (Huds.) Karst. — Syll. IX, p. 257. — \**Exidia subrepanda* Karst. Symb. Myc. Fenn. XYX, p. 73. — Pulvinulata, undulata e pallido fuscescens. 906

*Hab.* ad Abietem excelsam ad Mustialam. — \**Exidia populina* Karst. l. c. — Minor, mollior, cæcio-albida. Ad Populum tremulam in Fennia.

**TREMELLA** Dill. — Syll. VI, p. 780, IX, p. 258. Cfr. Grev. XX, p. 15.

1. *Tremella togoënsis* P. Henn. F. Afr. II, p. 20, t. I, f. 3. — Cæspitosa, imbricata, gelatinosa, stipitata, lobata, lutescens; lobis cuneatis, flabellatis v. bi-multipartitis, margine undulatis, integris v. crenulatis, usque ad 13 mm. long.; basidiis globulosis, partitis; sporis ellipsoideis v. oblongis, curvulis, granulosi, apice obtusis dein uniseptatis, hyalino-flavescentibus,  $7-9 \approx 4-5$ . 907

*Hab.* ad ligna putrida, in regione Togoënsi Africæ.

2. *Tremella pululahuana* Pat. Bull. Soc. Myc. 1893, p. 138. — Effusa, tenuis, levis, ochraceo-brunnea, subceracea, parum gelatinosa; basidiis immersis, ovoideo-subglobosis, 2-4-cruciatim septatis  $20 \approx 10$ ; sporis hyalinis, levibus, ovoideis, leniter curvulis,  $10-12 \approx 5-6$ . 908

*Hab.* ad ligna putrida, Pululahua in Æquatoria. — Fungus 2-3 cm. long., 0,5-1 mm. cr.

3. *Tremella inconspicua* Pat. Bull. Soc. Myc. 1893, p. 138. — Minutissima, rotundata, gregaria, sæpe confluens, pallide cinerea, subhyalina, maculam cineream, 1 cm. long. efficiens; contextu hyalino; basidiis periphericis, globosis v. pyriformibus, pedicellatis,  $10 \approx 7-8$ , longitudinaliter cruciatim septatis, 4-sterigmaticis; sporis hyalinis 5  $\mu$ . diam. 909

*Hab.* ad ligna emortua in Æquatoria. — Fungus 250-350  $\mu$ . lat. 910

4. *Tremella rubro-violacea* Britz. Hym. Südbayer. IX, p. 22, f. 20.

*Hab.* ad cortices Baviaræ australis. — Roseo-violacea denique expallens; sporæ 6-7  $\approx$  2. *T. violaceæ* affinis.

5. *Tremella pinicola* Britz. Hym. Südbayer IX, p. 22, f. 19. 911

*Hab.* ad cortices Pinorum Baviariæ australis. — Aurantiaca, intus pallidior; habitu et sporis *T. mesentericæ* affinis.

6. **Tremella conglobata** Britz. Hym. Südbayer IX, p. 22, f. 15. 912

*Gab.* in truncis Alni Baviariæ australis. — Albida; sporæ 7,5-8  $\approx$  3,5-4. *T. viscosæ* affinis.

**SIROBASIDIUM** Lag. et Pat. Journ. de Bot. 1892, p. 465 (Etym. *seira* series et *basidium*). — Fungi gelatinosi, pulvinati, ubique hymenio vestiti; basidia ex apice hypharum oriunda, globosa v. ovoidea, longitudinaliter quadripartita, in catenulas disposita, quarum articuli inferni juniores; sporæ e quacumque parte basidii singulatim oriundæ, continuæ, fusiformes, sessiles.

1. **Sirobasidium albidum** Lag. et Pat. Journ. de Bot. 1892, p. 465, 913 et 469 cum icone. — Acervulis sparsis v. laxè gregariis, innato-erumpentibus, rotundatis, albidis, tremellosis; hyphis simplicibus, hyalinis, strato hyalino angustiore obductis e centro radiantibus; catenulis basidiorum usque 8-articulatis, articulis (basidiis) 12-15  $\mu$ . long.; sporis hyalinis, fusiformibus 24-26  $\approx$  6-10.

*Hab.* ad ramos dissectos ex Æquatoria.

2. **Sirobasidium sanguineum** Lag. et Pat. l. c. c. ic. — Acervulis 914 sparsis v. omnino confluentibus, innato-erumpentibus, gyroso-ce-rebriformibus, rubris, e coriaceo gelatinosis; hyphis filiformibus, valde ramosis, rufis; catenulis basidiorum ex 2-4 v. pluribus articulis compositis; articulis (basidiis) 18-20  $\mu$ . long. 10-12 lat. ovoideis, apice attenuatis, rufescentibus; sporis hyalinis, fusiformibus, 17-20  $\approx$  6-8.

*Hab.* ad ramulos emortuos Barnadesiæ in Æquatoria.

**DACRYOMYCES** Nees. — Syll. VI, p. 796, IX, p. 259.

1. **Dacryomyces Flabellum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 324. 915 — Saturate aurantiaca, gelatinosa, flabelliformis, breviter lateraliter stipitata, suberecta, primitus tuberculiformis; sporis oblongo-cylindræis, oblique apiculatis, apice rotundatis, flavidis, 7-septatis, 15-18  $\approx$  6.

*Hab.* in truncis putridis, Mercer Island pr. Seattle Wash. Amer. bor. (PARKER). — A *D. stillato* præcipue forma flabellata differt. 1,5-2 cm. long. et lat.

2. **Dacryomyces Papaveris** Quêl. Rev. Myc. 1892 p. 65. — Globosa 916 v. oblonga, solitaria v. confluens, tenuissima, flavescenti-albida; sporis cylindræis.

*Hab.* ad capsulas Papaveris somniferi, Gallia. — Acervuli 3-5 mm. long.

**DITIOLA** Fr. — Syll. VI p. 813. IX p. 26.

1. *Ditiola radicata* (A. S.) Fr. — Sacc. Syll. VI p. 813. — Cfr. Lin-  
dau in Hedw. 1894 p. 234 t. XIII, ubi descriptio plena fungilli  
genuine tremellinei. Basidia filiformia, apice bifurcata; sporæ obova-  
tæ, basi oblique apiculatæ, continuæ, hyalinæ, 8-10  $\approx$  3,8-4, curvulæ,  
solitarie acrogenæ.

**DACRYOPSIS** Masee in Grev. XX p. 23 (Etym. *dacryon* lacryma et  
*ops* facies), *Coryne* Berk. ex p. — Fungus gelatinosus, stipitatus.  
Hymenophorum capitatum, bene definitum. Conidiophora copiosa  
in stratum densum stipata. Conidia minuta continua. Basidia cylin-  
dracea, bifurcata, non septata. Sporæ continuæ v. septatæ.

1. *Dacryopsis unicolor* Masee in Grev. XX, p. 24, *Coryne unicolor* 918  
B. et C. — Gregaria, omnino nigrescens; capitulo globoso, levi,  
æquali; stipite elongato, erecto, sursum subattenuato, longitudina-  
liter vage ruguloso; conidiophoris linearibus, curvis, septatis, late-  
raliter pauciramulosis, 70-80  $\approx$  1,5; conidiis ellipsoideis, oblongis,  
continuis, hyalinis, 3  $\approx$  1; basidiis continuis, apice 2-furcatis, 45-  
50  $\approx$  5-6; sporis hyalinis, ellipsoideo-oblongis, basi oblique apiculatis,  
15  $\approx$  4-4,5.

*Hab.* ad lignum putre, Cuba. — Capitulum 1,5-2 mm. diam.;  
stipes 5-8  $\approx$  1-1,5 mm.

2. *Dacryopsis gyrocephala* Mass. Grev. XX. p. 24, *Coryne gyroce-* 919  
*phala* B. et C. Cfr. Syll. VIII p. 644. — Sparsa v. gregaria, capite  
hemisphærico, subtus plano, gyrose costato, saturate purpureo,  
sicce nigrescenti-purpureo; stipite levi, pallide castaneo; conidio-  
phoris simplicibus, continuis, rectis, 40-50  $\approx$  1,5; conidiis continuis,  
hyalinis, ellipsoideo-oblongis, 2,5  $\approx$  1; basidiis 60-65  $\approx$  6-7; sporis  
ellipsoideo-oblongis, leniter curvulis, basi oblique apiculatis, 15-  
16  $\approx$  4-4,5; paraphysisibus copiosis.

*Hab.* ad lignum putre, Carolina infer. Amer. bor. — Stipes  
2-3,5  $\approx$  1,5 mm.

3. *Dacryopsis nuda* Masee in Grev. XX, p. 24, *Ditiola nuda* Berk. 920  
Ann. Nat. Hist. ser. II, vol. II, 267. — Gregaria; capitulo tenui,  
sphærico, subtus applanato, primo æquali dein minute ruguloso,  
aurantiaco; stipite brevi, valido, æquali, albo v. flavo-tincto, minute  
tormentoso; conidiophoris linearibus, rectis, continuis, simplicibus  
v. raro prope apicem 1-2-ramulosis, 35-40  $\approx$  1,5; conidiis ellipsoideo-  
oblongis, hyalinis, 3  $\approx$  1; basidiis 55-60  $\approx$  5-6; sporis ellipsoideo-ob-  
longis, hyalinis, basi oblique apiculatis, 3-septatis, 14  $\approx$  5.



*Hab.* ad truncos abiegnos in Britannia. — Capitulum 3-4 mm. diam.; stipes 3-4  $\approx$  2-2,5.

4. **Dacryopsis Ellisiana** Mass. in Grev. XX p. 24, *Coryne Ellisii* 921 Berk. Cfr. Syll. VIII, p. 644. — Gregaria; capitulo late ellipsoideo v. ellipsoideo-oblongo, levi, æquali, pallide brunneo; stipite cylindræo, longitudinaliter corrugato, atro-brunneo; conidiophoris rectis, septatis, prope apicem 1-3-ramulosis, 40-50  $\approx$  2,5; conidiis continuis, hyalinis, ellipsoideo-oblongis, lenissime curvulis, 3  $\approx$  1; basidiis cylindræis, apice 2-furcatis, continuis, 30-55  $\approx$  6; sporis ellipsoideo-oblongis, basi oblique apiculatis, 14  $\approx$  5.

*Hab.* ad lignum emortuum, New York Amer. bor. — Capitulum 4-6  $\approx$  2-4 mm.; stipes 3-4  $\approx$  1,5-2 mm.

**CERACEA** Crag. — Syll. VI p. 805.

1. **Ceracea Lagerheimii** Pat. Bull. Soc. Myc. 1893 p. 141 f. VIII 922 fig. V. — Effusa, omnino resupinata, tenuis, ceracea, vix gelatinosa, ochracea, margine stricto, albo-sericeo, contextu albo, ex hyphis, confertis, ramosissimis, crassis, nitentibus, leniter gelatinosis composito; hymenio ochraceo, ex hyphis subgelatinosis 5-6  $\mu$ . lat. guttulatis, 2-3-ramosis, apice in basidium cylindræum, furcatum 40-60  $\approx$  5, desinentibus formato; sporis hyalinis, ovoideis, medio 1-septatis, 10-12  $\approx$  5.

*Hab.* ad ligna putrida, in Æquatoria.

**GUEPINIA** Fr. — Syll. VI p. 805.

1. **Guepinia obliqua** Massee Fungus-flora I p. 418. — Gregaria; hy- 923 menio subconcavo, obliquo, deorsum in stipitem brevissimum trans-eunte, omnino saturate aurantiaco, glabro; sporis ellipsoideis, hyalinis, subcurvulis, continuis, 12  $\approx$  5-6.

*Hab.* ad lignum emortuum in Britannia. — Fungus circ. 4 mm. alt.

2. **Guepinia fissa** Berk. — Syll. VI p. 811. — var. *abyssinica* P. 924 Henn. T. Æthiop. I p. 105 t. IV f. 6,6a. — Pileo spathulato, inciso v. partito, margine sinuoso, lobis rotundatis, raro glossoideo; hymenio flavo-aurantiaco, undulato costato; stipite compresso, alutaceo, velutino; sporis oblongis curvatis 1-septatis, subhyalinis, 6-8  $\approx$  4-5.

*Hab.* in Abyssinia. — Stipes usque ad 6 mm. long.; pileus 6 mm. diam.; odor suavis. — *G. spathulariæ* similis.

**HORMOMYCES** Bon. — Syll. VI p. 812, IX p. 261.

1. *Hormomyces pezizoideus* Speg. F. Puigg. n. 173, p. 89. — Sparsus<sup>92</sup>  
v. laxè gregarius, rufescenti-succineus, parvulus, primo subglobosus  
dein umbilicato-cupulatus obtuseque rotundato-marginatus; sporis  
globosis, hyalinis 1,5-2  $\mu$ . diam., in catenulas 40-100  $\mu$ . long.  
dispositis.

*Hab.* ad culmos putrescentes Bambusaceæ cujusdam in uliginosis  
prope Apiahy Brasilæ. — Fungus 1-5 cm. diam.

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# GASTEROMYCETÆ WILLD.

Syll. VII, p. 1, IX, p. 262.

Fam. 1, Phalloideæ Fr. \*)

**DICTYOPHORA** Desv. — Syll. VII p. 3, IX p. 262.

1. *Dictyophora merulina* Berk., Cooke in litt. — Gregaria; pileo co- 926  
riaceo campanulato-conico, ruguloso, ochraceo, materia brunnescenti  
sporifora fætidissima obtecto, apice stomate dentato pervio; stipite  
discreto, tereti v. teretiusculo lacunoso-spongioso, elastico, cavo,  
albo; velo retiformi indusiiformi, deplanato, stipitis partem tertiam  
obtegenti, albo areolis irregularibus, subhexagonis, lamellatis: vol-  
va exteriore sphæroidea sordide alba v. brunnescenti, tremelloso-  
coriacea, interiore tremelloso-membranacea, raro cum exteriore  
connata.

*Hab.* ad truncos Bambusæ, Java.

2. *Dictyophora callichroa* Möller Bras. Pilzblum. p. 129 et 148. — 927  
Receptacula aurantiaca, oris margine roseo, valde exerto; stipite et  
indusio albo.

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\*) Conferenda illustratio singularium Phalloidearum brasiliensium cl. A. Möller (*Brasilische Pilzblumen*, Jena 1895) optimis iconibus ex vivo sumptis exornata. Hic genera et species novæ ibi descripta vix tanguntur. Aliud cl. auctoris recens et curiosum opus est *Die Pilzgärten einiger südamerikanischen Ameisen*, Jena 1893, ex quo diagnosin sequentem excerpto:

*Phollota gongylaphora* Möller Die Pilzgärten p. 70, tab. I-VII (*Rozites*).

*Hab.* ad nidos Attæ (Formica) discigeræ pr. Blumenau Brasiliæ. — Nidi sat extensi, cavernosi, mycelio albo (Pilzgarten Möll.) ubique obducuntur, ex quo mucedinea quædam inter *Aspergillum* et *Spicariam* fere media generatur, conidiis modo globulosis modo ellipsoideis (an duæ species?). E mycelio oritur fungus perfectus: Pileus globoso-hemisphæricus, pallens, squamis atropurpureis vestitus, 10-16 cm. lat.; stipites cylindracei subcavi, plures basi incrassatula juncti, albi, squamulosi, superne anulo persistente, rimoso-squamuloso, præditi. Lamellæ liberæ, confertæ, initio albæ. Basidia 30  $\mu$ . long., 4-sterigmica. Sporæ ovoideæ, 8  $\mu$ . long. ochraceæ. Exemplaria majora 24 cm. alta; stipes basi 4 cm. cr. — Fungus (ut alii) videtur reapse a formicis cultus; de quo conferenda eximia Mölleri monographia.

*Hab.* ad Blumenau Brasiliæ (GÄRTNER). Totus fungus 15 cm.  
alt. Colore et odore ab affini *D. phalloidea* recedit.

**ITHYPHALLUS** Fr. — Syll. VII p. 8, IX p. 26.

1. *Ithyphallus Lauterbachii* Henn. Fung. novoguin. II p. 36 (cfr. E. 928 Fischer, Neue Unters. zur vergl. Entwicklungsgesch. und System. Phalloid. 1893 p. 37). — Volva globoso-ovoidea, albo-alutacea, fibrillis subclavariiformibus, compressis, subulatis v. ramosis, alutaceis usque supra medium dense vestita; stipite cavo, e pluribus stratis cavitatum composito; pileo cum stipitis apice in limbum recurvatum conjuncto; sporis ellipsoideis,  $3 \approx 1,5$ .

*Hab.* ad terram Novæ Guineæ.

2. *Ithyphallus glutinolens* Möller Bras. Pilzblum. p. 100 et 148 tab. 920 4, f. 1. — Stipite strato unico (raro binis) lacunarum prædito; receptaculo omnino levi, compacto, hemisphærico, infra libero excavato, olivaceo-lurido; sporis  $4 \approx 1,5$ .

*Hab.* ad Blumenau Brasiliæ. — Totus fungus 4-7 cm. long.; receptaculum 2 cm. lat. — Odor glutinis.

**MUTINUS** Fr. — Syll. VII p. 12, IX p. 263.

1. *Mutinus proximus* Berk. Herb. Mass. Grev. XIX p. 94. — Stipite 930 albido, gracili, strato lacunarum unico, extus alveolato; parte sporifera 4 cm. long. subglobosa, obtusa, non perforata aurantio-rufa, apice mucore olivaceo conspersa; sporis hyalinis elliptico-oblongis  $3 \approx 1$ ; volva ampla e mycelio albo chordiformi enascenti.

*Hab.* ad terram, Peradenya Ceylon. — Totus fungus 7-12 cm. alt.

**APOROPHALLUS** Möller Brasil. Pilzblum. p. 68 et 147, tab. 8, f. 24 (Ety. a et poros h. e. phallus clausus). — A *Phallo* recedit in primis receptaculo operculo apicali diu clauso, campanulato.

1. *Aporophallus subtilis* Möller l. c. Characteres generis. 931

*Hab.* ad Blumenau Brasiliæ. — Stipes albus, cellulis unistratosis formatus; receptaculum leve, omnino clausum; totus fungus 2-3 cm. alt.; sporæ  $5 \approx 2-3$ .

**ITAJAHYA** Möller Bras. Pilzblum. p. 79 et 148, tab. 5. (Ety. a flum. Itajahy secus quem nascitur). — Receptaculum capitatum, stipitatum. Laminæ tramæ pseudoparenchymaticæ glebam sustentantes tota extensione permanentes.

1. *Itajahya galericulata* Möller l. c. — Receptaculo globoso-ovoideo, 932  
apice calyptra alba fimbriata tecto; stipite cylindraceo crasso albo,  
cellulis pluristratosus formato; sporis 3-5  $\mu$ . long. subolivaceis, sæ-  
pius octonis in quoque basidio.

*Hab.* ad Blumenau et Rio de Janeiro Brasiliæ. — Stipes 3 cm.  
cr.; volva clausa magna 70-75 mm. diam.

**CLATHRUS** Mich. — Syll. VII, p. 18, IX, p. 264.

1. *Clathrus Tepperianus* Ludw. Centralbl. 1890, n. 27. — Recepta- 933  
culo sphaerico undique cancellato; interstitiis regulariter hexagonis  
v. pentagonis, 2,5-4 cm. ampl., ramis levibus, ileiformibus cavis,  
compresso-rotundis 3-4 mm. lat., 2-3 cm. long., albidis; sporis 4-  
5 = 2, hyalinis.

*Hab.* ad terram Nortans Summit in Australia merid. (TEPPER).

2. *Clathrus guttatus* Fr. Nov. Symb. p. 133. — Turbinatus, trabi- 934  
bus primariis quinque anastomosantibus coccineis, extus albo-gutta-  
tis; volva alba regulariter quinqueloba, pro ratione minore; peridii  
ramis minus dense anastomosantibus in cancellum elongatum, ob-  
ovatum v. turbinatum.

*Hab.* in insula S. Thomæ. — Color læte coccineus, albo-gut-  
tatus.

3. *Clathrus chrysomycelinus* Möller Bras. Pilzblum. pag. 22 et 146, 935  
tab. 2, f. 1-2-3, f. 1 b. — Mycelio flavo-aureo; receptaculo sub-  
globoso, æqualiter clathrato, rubro; processibus ex angulis reticuli  
introrsum versis, glebam sustentibus; sporis 4 = 1-1,5.

*Hab.* ad terram, Blumenau Brasiliæ. — Fungus 4-5 cm. alt.

**COLUS** Cav. et Séch. — Syll. VII, p. 21.

1. *Colus Garcie* Möller Bras. Pilzblum p. 35 et 146, tab. 4, f. 2. — 936  
Receptaculo deorsum stipitiformi, sursum in ramos 1-2-loculares  
extus bicostatos diviso, ramis apice uno puncto connatis, gleba prope  
receptaculi apicem posita; sporis 5 = 1-1,5.

*Hab.* ad Blumenau in Valle Garcie Brasiliæ. — Totus fungus  
3-5 cm. long., 1 cm. crass. Odor piscium. — Quoad *Colum Gard-  
neri* (Berk.) Syll. VII, p. 21, cfr. Grev. XIX, p. 94.

**BLUMENAVIA** Möller Brasil. Pilzblum. p. 57 et 146, tab. 3, f. 1 a,  
2, 3. (Etym. a loco *Blumenau* Brasiliæ, prope quem viget). —  
Receptaculum *Laternæ*, rami vero appendicibus membranaceo-ala-  
tis glebam sustentibus præditi.

1. **Blumenavia rhacodos** Möller l. c. Characteres generis.

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*Hab.* ad Blumenau Brasilæ. — Receptaculum læte flavum, ovato-oblongum, 9-10 cm. alt.; rami extus rhachidem animalium æmulantes; sporæ 4  $\mu$ . long., octonæ in quoque basidio.

**PHALLOGASTER** Morgan Note on Phall. sacc. cum tabula, Thaxter Note on Phall. sacc. c. tab. (Ety. *phallus* et *gaster*, quasi *gasteromyces* ad *Clathrum* accedens). — Peridium sphaericum v. piriforme, stipitatum v. substipitatum, 1-stratosum, cortice evanido obtectum, irregularibus subtilibus areolis, ætate perforatis, reticulatum, demum apice in lobos dehiscens; gleba irregulariter multilobata; lobi contigui, inæquales, secedentes ab axi centrali gelatinoso, in glebam penetranti, lobosque segreganti; basidia clavata, apice obtuso polyspora; sporæ oblongæ. — Totum contentum maturitate deliquescens et peridii prærupti interiori superficiei adhærens. Mycelium fibrosum, ramosum.

1. **Phallogaster saccatus** Morg. Journ. Cincinn. Nat. Hist. 1892. Oct. 938 t. II. — Solitarius v. raro subcæspitosus; peridio sphærico v. piri-formi, stipitato v. subsessili, levi, subinæquali, albido, ætate atrocarneo maculato, dein crasse clathrato, irregulariterque perforato, demum apice in 3-4 lobos divergentes dehiscenti; gleba atro-vidi, irregulariter ad superficiem internam peridii coacervatim adhærenti; sporis viridibus, subcylindræis 4-5  $\approx$  1-2, 6-8 in unoquoque basidio, viridulis.

*Hab.* ad ligna putrida, dejecta, Ohio, New York, Connecticut Amer. bor. — Peridium 3-5 cm. alt.

**ANTHURUS** Kalchbr. — Syll. VII, p. 23.

1. **Anthurus borealis** E. A. Burt. A North Amer. Anth. Bost. 1894, 939 p. 504, t. 49-50.

*Hab.* in collibus arenosis cultis pr. East Galway N. Y. Amer. bor. *Anth. australiensi* subaffinis, 10-12 cm. alt. Sporæ ellipsoideæ, olivaceæ, 3-4  $\approx$  1,5, quinæ-octonæ in basidiis septatis capitato-acrogenæ.

**PROTUBERA** Möller Bras. Pilzblum. pag. 10 et 145, tab. 6, fig. 1-6. (Ety. a *tuber*, cui forma accedit). — Receptaculum subglobosum, sessile; cortex externus brunneus, volvam gelatinosam includens, intus radiatim loculatum. — Inter *Hysterangium* et *Clathrum* fere medium genus.



1. **Protuberá Maracujá** Möll. l. c. — *Mycelio chordiformi*, 2-3 mm. 940  
crasso; receptaculo globoso-tuberoideo, sulcato, brunneo, 5 cm. diam.;  
sporis 3-4  $\approx$  1,5.

*Hab.* fere hypogæa pr. Blumenau Brasilæ.

## Fam. 2. Nidulariaceæ Fr.

**NIDULARIA** Fr. — Syll. VII, p. 28, IX, p. 265.

1. **Nidularia candida** Peck 45 Rep. pag. 24. — Peridio extus tomen- 941  
toso, albido, infundibuliformi, intus glabro, niveo, ore lato, integro;  
peridiolis numerosis, lenticularibus, brunneis, lineis fuscis varie  
dispositis, numerosis, notatis; sporis late ellipticis 7  $\approx$  5.

*Hab.* ad terram inter muscos, Olympia, Washington, Amer. bor.

**CYATHUS** Hall. — Syll. VII, p. 32, IX, 266.

1. **Cyathus Colensoi** Berk. Fl. Tasm. II, p. 192, Grev. XIX, p. 94. 942  
— Dense confertus; peridio cyathiformi v. subcylindrico, pariete  
tenui, flexibili, extus tomento villosa ochraceo-brunneo dense con-  
ferto, ætate levi, intus omnino levi et æquali, brunnescenti; sporan-  
giolis maturitate nigricantibus, 2 mm. diam.; sporis hyalinis 8  $\approx$  5.

*Hab.* ad terram in Nova Zelandia.

2. **Cyathus Baileyi** Massee Grev. XXI, p. 3. — Peridio obconico v. 943  
campanulato, maturitate supra late dehiscenti, margine tenuiter  
revoluta, tenui, cartilagineo, extus minute tomentoso, cinnamomeo,  
intus glabro griseo-cinnamomeo; sporangiolis 8-12, biconvexis, levis-  
simis, griseis demum albidis, nitentibus, 2-2,5 mm. diam.; sporis  
subglobosis, hyalinis 18-20  $\approx$  15-16.

*Hab.* in fimo, Brisbane Australiæ (BAILEY). — Peridium  $\frac{2}{3}$ -1  
cm. alt. — Quoad *C. Lesueurii* (etiam Italiæ incolam) cfr. FIORI,  
Sulla presenza del *Cyath. Lesueurii* Pad. 1894, c. icon.

- Cyathus sulcatus** Kalchbr. — Syll. VII, I, p. 36, Hennings F. Afric.  
pag. 363. — Peridio obconico, extus cervino, hirta-tomentoso ad  
marginem sulcato-striato, intus glabro, plumbeo-nitido; sporangio-  
lis rotundato-ellipticis, compresso-lenticularibus, nigris, nitentibus,  
2 mm. diam.; sporis ellipsoideis v. ovoideo-ellipsoideis, levibus, hya-  
linis, 17-21  $\approx$  11-12.

*Hab.* ad ligna, Tago Africæ centr. et Natal Afr. merid.

**CRUCIBULUM** Tul. — Syll. VII, p. 43.

1. **Crucibulum simile** Massee Grev. XIX, p. 94. — Confertum v. spar- 944

sum, subcylindræum dein campanuliforme, oris margine revoluto, extus tomento brevissimo, atro-aurantiaco conspersum, intus albidum, leve, æquale; sporangiolis biconvexis, albidis 1 mm. diam.; sporis hyalinis, parvulis  $4 \approx 2$ .

*Hab.* ad cortices et ad ligna, in Nova Zelandia et Australia.

— *C. vulgari* simile; 6-7 mm. alt.

### Fam. 3. Lycoperdaceæ Ehremb.

**GYROPHRAGMIUM** Mont. — Syll. VII, p. 51.

*Gyrophragmium texense* (B. et C.) Mass. Grev. XIX, p. 96, *Secotium* B. et C. — Syll. VII, p. 53. — Teste Massee l. c., a *Secotio* separanda species ob glebam septis lamellatis divisam etc. Basidia clavata tetraspora, sterigmatibus exilissimis; sporæ cinereo-brunneæ, 4  $\mu$ . diam.

**SECOTIUM** Kunze — Syll. VII, p. 51, IX, p. 266.

1. *Secotium Gunnii* Berk. Herb., Massee Grev. XIX, p. 96. — Tenue, stipite gracili, subæquali, 1,5 cm. 3 mm. cr., farcto, pallide brunneo in glebam penetranti; peridio subgloboso, profunde umbilicato, pallide brunneo, levi, 1,5 cm. diam.; gleba brunnea, cellulis minutis subpolygoniis; basidiis clavatis tetrasporis; sterigmatibus gracilibus; sporis oblique ellipsoideis utrinque acutis, levibus, pallide rufo-brunneis,  $7 \approx 4$ .

*Hab.* ad terram Sulphur Springs Novæ Zelandiæ (GUNN).

2. *Secotium scabrosum* Cooke et Mass. Grev. XX, p. 35. — Peridio hemisphærico depresso, subolivaceo v. griseo, minute scabrido; gleba lacunosa, septis lamelliformibus, sinuatis, crispis, atro-rufo-brunneis; sporis citrifirmibus grosse verrucosis, pallide olivaceo-flavis 16-18  $\approx$  10.

*Hab.* ad terram, Domain, Melbourne Australiæ (MUELLER). — Stipes brevissimus, obsoletus.

3. *Secotium leucocephalum* Massee Grev. XIX, p. 95. — Minutum, stipite solido, æquali, albo, 1-2 cm. long., 3 mm. crass., in glebam columellæ ad instar penetranti et in lamellas expanso; peridio hemisphærico umbilicato, 1,5-2 cm. diam., albo, levi, glabro demum contracto-corrugato; gleba aurantio-brunnea, oculis subæqualibus minutis angulosis; basidiis late clavatis tetrasporis, sterigmati-

bus gracilibus; sporis late ellipsoideis, apiculatis, verrucosis, flavo-brunneis,  $8 \approx 5$ .

*Hab.* ad terram Novæ Zelandiæ. — Stipite peridioque albis mox distinctum.

4. **Secotium erythrocephalum** Tul. — Syll. VII, p. 54. — Massee in Grev. XIX, p. 96. — Basidia cylindraceo-clavata, 4-spora, sterigmatibus gracilibus elongatis; sporis ellipsoideo-oblongis, levibus, apiculatis, pallide flavo-brunneis,  $10-11 \approx 5$ .

**PROTOGLOSSUM** Massee Grev. XIX, p. 97 (Etym. *protos* primus et *glossa* lingua). — Subterraneum; peridium verticale, elongato-cylindraceum, subinde basi brevissime attenuato-stipitatum, continuum, indehiscens, crassiusculum, gleba in loculos minutos, angulato-sinuosis divisa, septis crassis firmis persistentibus. Basidia clavata bispora, sterigmatibus crassiusculis divergentibus; sporæ subglobosæ coloratæ. — A *Caulogloss* differt quia subterraneum, sessile, basidiis bisporis etc.

1. **Protoglossum luteum** Massee l. c. — Peridio cylindraceo, 5 cm. 948 alt., 2 cm. lat., subterraneo, vertice emergenti, aurantiaco, parte hypogæa flavicanti, levi, glabra, loculis 1 mm. diam.; sporis globosis, aurantio-brunneis,  $14 \mu$  diam., areolato-costatis.

*Hab.* ad terram Clarendon, Victoria Australiæ.

**GYMNOGLOSSUM** Massee in Grev. XIX, p. 97. (Etym. *gymnos* nudus et *glossa* lingua). — Peridium nullum. Gleba nuda, subcylindrica, sursum attenuata, copiose et irregulariter locellata. Basidia 4-spora. Sporæ coloratæ. — Differt a *Protoglosso*, *Chænoderma* et *Cauloglosso* absentia peridii.

1. **Gymnoglossum stipitatum** Massee l. c. — Gleba obtuse conica, pal- 949 lide brunnea, stipite solido pallide brunneo, intus albo prædita; lacunis extimis sterilibus; sporis ellipsoideis, utrinque acutis, levibus, olivaceis,  $10 \approx 6$ .

*Hab.* ad terram, Moonan Brook, New South Wales Australiæ (CARTER). — Gleba 5 cm. alta, 2 cm. cr.; stipes 1,5 cm. long., 3-4 mm. cr.

**PODAXON** (Desv.) Fr. — Syll. VIII, p. 58, IX, p. 267.

1. **Podaxon mossamedensis** W. et C. — Syll. VII, pag. 59. — var. 950  
**Emini** P. Henn. F. Afr. II, p. 38. — Peridio subconico v. oblongo, siccitate flavo-fuscescenti, rugoso, apice obtuso; stipite lignoso,

firmo, durissimo, æquali, latis squamis tecto, basi rubro tincto; sporis ellipsoideis, rufo-brunneis, levibus,  $8-12 \approx 6-8$ ; capillitio fusco.

*Hab.* in Africa centrali. — Peridium 12-22 cm. long., 4 cm. lat.; stipes 10 cm. long., 2 cm. cr.

2. *Podaxon squamosus* Pat. Bull. Soc. Myc. 1891, p. 209, t. XIII. <sup>951</sup>

— Peridio ovato, apice obtuso, albido, sicco flavo-rufo, membrana squamosa intus alba vestito, squamis latis, numerosis, superficialibus, adpressis; stipite ligneo, squamoso, longitudinaliter striato, æquali, albido-fuscescenti; gleba sublanosa, flavo-olivacea, dein tabacino-nigrescenti, columella percursa; capillitio floccoso, hyalino,  $5-8 \mu$ . crasso; basidiis hyalinis, glomerulatis 4-sporis, ovoideis,  $20 \approx 12$ ; sporis ellipticis, ex hyalino fuscis,  $10-12 \approx 8-9$ .

*Hab.* in arena deserti Ægyptiaco-Syriaci prope «el' Arys».  
— Peridium 6 cm. alt., 3 cm. lat.; stipes 5-8 cm. long., 5-6 mm. lat. *P. carcinomali* affinis.

3. *Podaxon mexicanus* Ell. Descript. new sp. Fung. in Journ. of Mycol. 1893, pag. 274. <sup>952</sup>

— Peridio ovoideo, tenui, albo, cum stipite squamis latis, flavidis, adpressis vestito, margine sublobato-lacero, dein a stipite secedenti; contextu læte aurantiaco; stipite basi subbulboso et fibrilloso-intertexto, apice attenuato, cavo; capillitio e filamentis flavidis,  $3-8 \mu$ . diam.; sporis copiosis, globosis v. ovoideis,  $8-12 \mu$ . diam., nonnullis majoribus  $12-15 \mu$ . diam., flavido-olivaceis.

*Hab.* ad terram ad Ajia Bampo, Sonora Mexici (Edw. PALMER). — Fungus 4-8 cm. alt.; stipes basi circ. 1 cm. cr.; peridium 2-3,5 cm. alt., 2-3 cm. lat.

**TYLOSTOMA** Pers. — Syll. VII, p. 60, IX, pag. 268. — Sec. Massee Grev. XIX, p. 97, genus *Sphæriceps* W. et C. — Syll. VII, p. 60, est *Battarrea*.

1. *Tylostoma Bonianum*, Pat. Bull. Soc. Myc. 1892, p. 49, t. VII. f. IV. <sup>953</sup>

— Peridio subgloboso, verrucoso dein plus minus apice denudato, ostiolo recto, integro, membranaceo; gleba ochraceo-pallida; capillitio filamentis hyalinis, ramosis, septatis efformato; stipite farcto, intus albo, extus brunneo, squamuloso; apice nudo in cavitatem peridii inserto; sporis rotundatis, flavis,  $4 \mu$ . diam.

*Hab.* ad terram in alpestribus, Tonkin (BON). — *T. mammoso*, *T. exasperata* affine.

2. *Tylostoma verrucosum* Morg. North Am. Fungi III, p. 164, t. XVI. <sup>954</sup>

f. 5. — Peridio depresso-globoso, crassiusculo dein firmo, rigido, squamis et verrucis persistentibus, minutis, densis, brunneis obte-  
cto; ostiolo parvo, circulari, prominenti, integro; stipite longo,  
gracili, squamis laceris, brunneis obteco, intus albo, centro laxe  
fibroso, mycelio bulbiformi, majusculo, inæquali inserto; filamentis  
capillitii longis, tenuibus, sporis æquilatis, hyalinis ramosis; sporis  
irregulariter globosis, minute verrucosis, pallide brunneis, 5-6  $\mu$ .  
diam.

*Hab.* ad terram pinguem in silvis, Ohio Amer. bor. (MORGAN).  
— Fungus 5-10 cm. alt., peridium circ. 12 mm. diam.; stipes circ.  
6 mm. cr.

3. **Tylostoma Mollerianum** Bres. et Roum. Rev. Myc. 1890, p. 37. — 955

Peridio subgloboso, papyraceo, albido, glabro, basi circa umbilicum  
stipitis circulo floccoso-hirto concolore cinctum, ore plano, rotundo  
demum lacerato-oblongo, haud fimbriato, prædito; stipite fistuloso,  
subquadrangulati longitudinaliter 4-5-sulcato, æquali, albido, sub-  
squarruloso glabrescenti, a peridio discreto et in acetabulum peri-  
dii immerso, basi marginato-volvaceo, volva bombacina evanida;  
gleba ochracea; sporis flavidis 3,5-5  $\mu$ . diam.

*Hab.* in insula S. Thomæ (MOLLER). — Peridium 12-18 mm.  
lat., 10-13 mm. alt.; stipes 2-4 cm. long., 3-4 mm. cr. *T. Ber-  
teroani* Lév., *T. Giovanellæ* Bres. affine. (Ex errore calami dia-  
gnosis edita in Syll. IX, p. 268 ad *Lachnocladium Mollerianum*  
spectat).

4. **Tylostoma Wrightii** Berk., Massee in Grevillea XIX, pag. 95. — 956

Stipite cavo, æquali, ochraceo, glabro; peridio sphærico-depresso;  
minute umbonato, pallide ochraceo, glabro, demum ad umbonem  
ostiolato; gleba flavido-brunnea; capillitiis filamentis hyalinis, crasse  
tunicatis, non septatis, æqualibus, longissimis, ramosis; sporis glo-  
bosis, pallide flavo-brunneis, minute verrucosis, 5-6  $\mu$ . diam.

*Hab.* ad terram, Rio Grande, Mexico bor. (WRIGHT). — Stipes  
6 cm. alt., 4 mm. cr. *T. Meyeniano* affine.

5. **Tylostoma campestre** Morg. North Am. Fung. III, p. 165, t. XVI, 957

f. 4. — Peridio depresso globoso, squamis caducis prædito; endo-  
peridio crassiusculo, submembranaceo dein levi et albido; ostiolo  
plano, irregulari, lacero, non fimbriato; stipite longo, crasso, sub-  
æquali, squamis latis, brunneis obteco, intus fibrilloso-farcto, my-  
celio bulbiformi inserto; filamentis capillitii longis, gracilibus sporis  
subæquilatis, hyalinis, ramosis; sporis irregulariter globosis, pallide  
brunneis, minutissime verrucosis, 4,5-5,5  $\mu$ . diam.

*Hab.* in solo sabuloso, Nebraska et California Amer. bor. — Fungus 2,5-3,5 cm. alt. peridium 12-18 mm. diam.; stipes circ. 6 mm. cr. *T. Berteroano* affine.

6. **Tylostoma tortuosum** Ehrenb. in Henn. F. Afr. I, p. 360, Sacc. Syll. 958 VII, p. 62. — Peridio obovato, membranaceo, glabro, luride albidulo-alutaceo, basi zona tomentoso-pilosa, fuscidula, cincto, ore submammoso parum prominenti moxque lacerato, prædito; stipite fibroso, subcavo, e furfuraceo glabrescenti, fusco, sursum sulcato apiceque in acetabulum pilei immerso, deorsum, attenuato-tortuoso; gleba luride ochracea; capillitii floccis cylindraceis, ramosis, subhyalinis, 6-8  $\mu$ . lat.; sporis subglobosis, subangulatis, asperulis, flavo-aureis 4,5-6  $\approx$  4-5.

*Hab.* in desertis arenosis Nubiæ. — Peridium 1,5 cm. lat.; stipes 6-8 cm., long., 5-6 mm. cr.

7. **Tylostoma Schweinfurthi** Bres. in P. Henn. F. Afr. I, p. 359. — 956 Peridio subgloboso, membranaceo, glabro, brunneo-lateritio, minute scrobiculato, basi applanato, circulo albidulo, fimbriato-dentato, annuliformi, libero, summitatem stipitis cingenti, ore dein stellato dehiscente prædito; stipite cavo, albidulo, furfuraceo-glabrescenti, sursum sulcato et in acetabulum pilei immerso, deorsum attenuato-radicato; gleba fulvo-lateritia; capillitii floccis cylindraceo-ramosis, luteis, vix septatis 3,5-5  $\mu$ . latis; sporis sub aqua flavido-aureis subgloboso-inæquilateralibus, levibus 4,5-5,5 diam.

*Hab.* in Nubia. — Peridium 2-3 cm. lat.; stipes 8-10 cm. long., apice 7-9 mm. cr.

8. **Tylostoma Barbeyanum** P. Henn. F. Æthiop. I. p. 99. — Peridio 960 depresso-globoso, membranaceo, glabro, pallide alutaceo, basi applanato undulatoque, apice laciniato-partito dehiscenti, usque ad 4 cm. diam.; stipite subcontorto, striato-sulcato, farinoso, medio squamis membranaceis sæpe annulatis dispositis, cincto, basi volvula lacerata, mycelio crasso et ramoso orienti, usque ad 9 cm. alt. prædito, a 1 cm. cr.; capillitio carneo-flavescenti; sporis subglobosis v. ellipticis, carneo-brunneis, levibus, 1-guttatis, 5-6  $\approx$  4-5.

*Hab.* in arenosis in Arabia. — *T. volvulato* Borsch. et *T. Boissieri* Kalchbr. affine.

9. **Tylostoma album** Mass. in Grev. XIX, p. 95. — Stipite ochraceo, 961 longitudinaliter corrugato; peridio globoso, minute umbonato, albo, glabro, micanti; gleba cinnamomea; capillitio denso, filamentis hyalinis, crasse tunicatis, sæpe ramosis, 8-12  $\mu$ . diam.; sporis globosis, grosse verrucosis, flavo-brunneis, 10-11  $\mu$ . diam.



*Hab.* ad terram Israelite Bay Australiæ occid. — Stipes 1-5 cm. alt.,  $\frac{1}{2}$  mm. cr. Habitus *T. brachypodis*.

**MITREMYCES** Nees. — Syll. VII, p. 68.

1. **Mitremyces æruginosus** Massee Grev. XIX, p. 96 (*Calostoma*). — 962

Exoperidio levi, dein in squamulas inæquales, minutas, ærugineas, diffracto, endoperidio subgloboso, atro-viridi, 1-1,5 cm. diam., ostiolo rubro, margine 5-dentato, aurantiaco; sporis ellipsoideis, verrucosis, pallide flavis,  $12 \approx 6$ .

*Hab.* ad terram Beenak, Victoria Australiæ. — Basis stipitiformis inæqualiter lacunosa, sordide brunnea, 4-6 cm. long. Ab affini *M. viridi* imprimis sporis ellipsoideis dignoscitur.

**GEASTER** Mich. — Syll. VII, p. 70 et IX, p. 271.

1. **Geaster Schweinfurthii** P. Henn. F. Afric. I, p. 361. — Exoperidio 963  
coriaceo, 5-9-fido, basi integro, obverse cupuliformi, laciniis involutis, intus levi, umbrino v. ferrugineo-fusco, extus albo-argenteo; endoperidio depresso-globoso, albo-plumbeo sessili, levi, papyraceo, peristomio subconico, striato-sulcato; capillitio fusco; sporis globosis, verrucosis, subfuscis 5-7  $\mu$ . diam.

*Hab.* in Africa. — Peridium 1,5 cm. diam. *G. striatulo* Kalch. et *G. mirabili* Mont. affinis.

2. **Geaster involutus** Massee Grev. XXI, p. 3. — Exoperidio fere ad 964  
basin in lacinias 6-8 subæquales, acutas, siccas valde incurvus diviso, extus brunneo, intus levi et pallide griseo; endoperidio globoso, subdepresso, brevissime pedicellato v. sessili, pallide castaneo; ostiolo conico, elongato, profunde sulcato; capillitii filamentis vulgo simplicibus, elongatis, apice acutis, fere hyalinis; sporis globosis, minute verrucosis, brunneis, circ. 4  $\mu$ . diam.

*Hab.* ad terram, St. Domingo Amer. centr. — Exoperidium circ. 2 cm. diam. *G. striatulo* affinis.

3. **Geaster stipitatus** Solms apud Fisch. in Hedw. 1893, p. 50, t. V. 965  
— Luteo-brunneus, levis; exoperidio globoso, apice papillato; endoperidio tenui; glebæ lacunis radiantibus; stipite apice sensim in peridium incrassato, capillitii filamentis plerumque simplicibus, 5-7  $\mu$ . cr.; sporis globosis, circ. 5  $\mu$ . diam., minute verrucosis, brunneis.

*Hab.* in Java. — Fungus 3,5-5,5 cm. alt.; peridium 2-2,5 cm. diam.; stipes basi 7-9 mm. diam.

4. **Geaster Englerianus** P. Henn. F. Afric. I, p. 361. — Exoperidio fere 966  
ad basin 6-8-partito, laciniis anguste triangularibus acutis, subin-

volutis, cortice exteriore coriaceo, squamuloso, griseo-cinnamomeo, dehiscenti, parte exoperidii persistenti crassa, carnosa, fragili, extus ruguloso-squamosa, intus valde rimosa, nigro brunnea; endoperidio sessili, ovoideo, levi, nigro-brunneo, demum apice inæqualiter dehiscenti, peristomio conico nec plicato nec dentato; capillitio atro-fusco; sporis globosis, verrucosis, fuscis, 4-5  $\mu$ . diam.

*Hab.* ad terram Kamerum Africæ. — Peridium 5-7 cm. diam.  
*G. hygrometrico* Pers. affinis.

5. **Geaster marchicus** P. Henn. Abhandl. Bot. Ver. Brandenb. XXXIV, 967 p. 4 (extract.). — Exoperidio duplici, cortice exteriore ad terram manenti cupuliformi, 4-7 lobo, superiore 4-5 fido, revoluta, fornicato, fere rigido, coriaceo, crasso, extus glabro, brunneo, intus rimoso, fusco; endoperidio late piriformi v. depresso-globoso, stipitato, ferrugineo v. atro-fusco, tomentosulo, basi late annulato sulcato; stipite cylindræco; peristomio conico, sulcato, fimbriato, minime marginato; capillitio pallido-brunneo, laxiusculo 5-12  $\mu$ . cr.; sporis subglobosis, verrucosis, atrofusciis, 4 4,5  $\mu$ . diam.

*Hab.* in Borussia apud Berolinum.

6. **Geaster? tonkinensis** Pat. Journ. Bot. 1891, p. 315. — Subglobosus v. obovatus; subiculo crasso, albo, floccoso, supra stipitem expanso; exoperidio coriaceo, ochraceo, furfuræco, intus pallidiore levique, 3-5-laciniato, endoperidio globuloso, sessili, tenui, membranæco, summitate late aperto, margine fimbriato; columella cylindræca, evanescenti; capillitio copioso filamentis longissimis, gracilibus, fuscis composito; sporis globulosis, fuscis, rotundis, levibus 3  $\mu$ . diam.

*Hab.* ad terram et ad ligna putrida Tonkin. — 1,5-3 cm. alt.

7. **Geaster coriaceus** Colenso in Trans. N. Zeal. Inst. XXIII, 1891, 969 p. 391, Beih. Bot. Centr. 1892, p. 18 (nomen).

## **DIPLODERMA** Link. — Syll. VII, p. 92.

1. **Diploderma melaspermum** Cooke et Mass. Grev. XX, p. 35. — 970 Subglobosum, 2-3 cm. diam.; exoperidio tenui, persistenti, dense velutino, griseo; endoperidio tenui, glabro, cinnamomeo, nucleo minuto; massa sporarum atro-umbrina; capillitio denso; sporis globosis, minutissime verrucosis, 4  $\mu$ . diam.

*Hab.* ad terram, Port Phillip Australiæ (MUELLER).

2. **Diploderma sabulosum** Cooke et Mass. Grev. XXI, p. 38. — 971 Subglobosum, pallidum; exoperidio crasso, subgelatinoso, sabuli granulis intertexto denique indurato; endoperidio membranæco, per-

sistenti, albo-argenteo; capillitio radianti, e fibris parallelis efformato; gleba sordide alba; sporis ellipsoideis, levibus  $14 \approx 7$ , pallidis, leniter ochraceo-tinctis.

*Hab.* in sabulosis Australiæ (MUELLER). — Fungus 2-3 cm. diam.

**LANOPIA** Fr. — Syll. VII, p. 95.

1. **Lanopila guaranítica** Speg. Fl. Guar. nonn. n. 38, p. 14. — Glo- 972  
bosa, arrhiza; cortice papyraceo, tenuissimo, fuligineo-fulvescenti, maculato, frustulatum evanescenti; gleba compacta, gossypino-pannosa, olivascenti; sporis ecaudatis, verrucosis, fusco-olivaceis,  $4-5 \mu$ . diam.

*Hab.* in campis cultis pr. Paraguari, Amer. austr. — Peridium 50-60 mm. diam. *L. argentinæ* Speg. affinis.

**BOVISTA** Dill. — Syll. VII, p. 96, IX, p. 273.

1. **Bovista incarnata** Massee Journ. of Bot. 1892, p. 197, t. 325 f. 12. 973  
— Globoso-depressa; endoperidio papyraceo, levissimo, glaberrimo, incarnato, vertice rumpenti; exoperidio granuloso, brunneo, secedenti; capillitio sporisque echinulatis, ecaudatis, obscure olivaceis  $4 \mu$ . diam.

*Hab.* ad truncos emortuos in India occid. — Gregaria 2-3 cm. diam. *B. velutinæ* affinis.

2. **Bovista montana** Morg. North Am. Fungi Gaster. p. 145. — Sub- 974  
globosa, radice chordiformi prædita; exoperidio maturitate in pelliculam farinaceo-furfuraceam mox evanescentem lacerato; endoperidio tenui flaccido, brunneo, levi, nitenti, apice dehiscenti; capillitio molli, primo ochraceo v. pallide brunneo, demum purpureo-brunneo, filamentis flexuosis, latis; sporis globosis levibus,  $4-5 \mu$ . diam.

*Hab.* ad terram, Miami Valley Amer. bor. — Peridium 3-4 cm. diam.

3. **Bovista minor** Morg. North Amer. Fungi Gaster. p. 147. — Sub- 975  
globosa ex mycelio filamentoso albo oriunda; exoperidio crassiusculo, rubro, irregulari, glebæ adhærenti, fragili, maturitate evanescenti, endoperidio tenui, levi, flaccido, rufo-brunneo, apice dehiscenti; capillitio olivaceo dein rufo-brunneo; filamentis flexuosis ramosis; sporis globosis subovatis, levibus,  $3,5-4,5 \mu$ . diam.

*Hab.* in umbrosis, Miami Valley Amer. bor. — Peridium 1-2 cm. diam.

4. **Bovista echinella** Pat. Bull. Soc. Myc. 1891, p. 165. — Peridio 976

subpergameneo, castaneo v. plumbeo, inferne plus minus plicato, apice irregulariter rupto, cortice albido, flocculoso, dein in areolas minutas, verrucosas diviso, tecto; gleba pulveracea, molliuscula, homogenea, flavo-brunnea; capillitio absque basi sterili e floccis gracilibus, levibus, radiato-ramosis efformato; sporis globosis, echinulatis, brunneis, longe pedicellatis, 5  $\mu$ . diam.

*Hab.* ad terram, Panecillo, Egido prope Quito Æquatoriz.

5. **Bovista hypogæa** Cooke et Massee Grev. XX, p. 35. — Fere sub-977  
terranea, globoso-depressa, 2,5 cm. diam.; exoperidio persistenti, tenui, albo sericeo; endoperidio albido, flexili, tenui, poro minutissimo determinato apice dehiscenti; gleba læte flavo-olivacea, capillitio densissimo; sporis globosis, verrucosis, 6-7  $\mu$ . diam.

*Hab.* ad terram, Gipps-Land Australiæ (MARTIN).

**CATASTOMA** Morg. North Am. Fungi, Gasterom. p. 142, t. V, f. 4-9  
(*Etym. cata* deorsum et *stoma* os) *Bovista* Aust. p. p. — Peridium subglobosum, sine basi incrassata, cortice seu exoperidio fragili, maturo lacero-separabili, endoperidio coriaceo, basi dehiscenti. Capillitii filamenta longa, ramosa; sporæ globosæ, pallide brunneæ, verrucosæ.

1. **Catastoma pedicellatum** Morg. l. c. — Peridio plus minus irre-978  
gulariter globoso; endoperidio depresso-globoso, tenello, pallido v. griseo demum brunneo; gleba compacta, olivacea dein friabili; capillitii filamentis 3-4  $\mu$ . cr.; sporis globosis, distincte verrucosis; pedicello persistenti suffultis, 8-9  $\mu$ . diam.

*Hab.* ad solum sabulosum, Carolina austr. Amer. bor. (RAVENEL).

**LYCOPERDON** Tourn. — Syll. VII, p. 106, IX, p. 275.

1. **Lycoperdon crassum** Pat. Bull. Soc. Myc. 1892, p. 49. — Peri-979  
dio levi, pallide brunneo, turbinato, superne convexo-rotundato, inferne attenuato, basi plus minus plicato; basi sterili, cellulosa, flava; gleba fertili stratum floccosum parum crassum, griseum formanti; capillitio tubis septatis, ramosis, flavidis composito; sporis flavo-brunneis, ellipsoideis, verrucosis, 5 = 3.

*Hab.* ad terram in silvis, Tonkin. — Peridium 10 cm. alt., 8 lat.

2. **Lycoperdon elegans** Morg. North Am. Fungi IV, p. 11, t. I, f. 4. 980  
— Peridio magno, depresso-globoso, subtus plicato et sæpe basi angusta, umboniformi, crasse radicata; cortice floccoso, flavescenti, in tunicam dense furfuraceam, persistentem, ochraceam v. brunneam et sæpe obscure areolatam exsiccando abeunti; gleba lata, supra con-

vexa,  $\frac{1}{2}$  v. plus peridii occupanti; capillitio olivaceo, e pallide brunneo demum purpureo-brunneo; filamentis ramosissimis, ramulis longis, conicis; sporis globosis, verrucosis, 5-6  $\mu$ . diam.

*Hab.* ad humum in pratis prope Jowa City Amer. bor. — Peridium 3-6 cm. diam.

3. **Lycoperdon eximium** Morg. North Am. Fungi IV, p. 15, t. II, 981  
f. 3. — Peridio obovato, mycelio fibroso; cortice albo v. brunnescenti, aculeis longis gracilibus sæpe curvatis et ad apicem convergentibus, demum decidentibus, superficiem internam peridii pallidam, levem relinquentibus; gleba parva  $\frac{1}{4}$  circ. peridii occupanti; capillitio sporisque coacervatis flavo-griseis, dein brunneo-olivaceis; sporis ovatis, levibus 5-6 = 4-4,5, solito pedicellatis.

*Hab.* ad terram in Carolina australi. — Peridium 2-3 cm. diam.

4. **Lycoperdon Muscorum** Morg. North Am. Fungi IV, p. 17 *L. molle* 982  
Peck nec alior. — Peridio turbinato, globoso v. superne depresso-globoso, in basim stipitiformem deorsum contracto; mycelio filmentoso et fibroso; cortice tenui, albo v. flavido, membrana spinuloso-granulosa usque ad apicem vestito, aculeis in superficie interiore peridii plerumque marcescentibus; gleba basim stipitiformem occupanti; capillitio griseo-flavido, dein brunneo-olivaceo; sporis verrucosis, 4-4,5  $\mu$ . diam.

*Hab.* ad Muscos, New York, Amer. bor. — Peridium 2-3 cm. diam. 2-5 cm. alt.

5. **Lycoperdon Lauterbachii** P. Henn. Fung. novoguin. II, p. 36. (*Globaria*). 983  
— Peridio subsphæroideo, sessili, radicato, papyraceo, persistenti, osculo angusto dehiscenti 1-1,5 cm. diam.; squamulis farinosis, acutis, pallidis secedentibus tecto, dein nudo, isabellino, nitido; capillitio laxo subincarnato; sporis globosis, levibus, 1-guttatis, pallide incarnatis, longe pedicellatis 4-5  $\mu$ ., pedicello hyalino 8-11  $\mu$ . long.

*Hab.* ad terram, Thursday-island Australiæ. — *L. furfuraceo* affine.

6. **Lycoperdon trygosporum** Veuill. in Rev. Myc. 1885, t. VII, p. 241, 984  
Ann. Soc. bot. Lyon t. XVII, p. 289. — Peridio turbinato, purpurascenti, flocculoso, levi, areolato; basi sterili parum crassa; gleba albida, firma, molliore, humida vinosa; sporis violascentibus, sublevibus, rotundis 6  $\mu$ . diam.

*Hab.* ad terram siliceam, in Gallia. — An *L. nigrescentis* vel potius *L. fragilis* forma, observante Quélet?

7. **Lycoperdon acuminatum** Bosc in Fr. Nov. Symb. p. 134, Morgan 985

North Am. Fungi IV, p. 21 t. II f. 8. — Peridio e globoso ovoideo, mycelio albo fibroso; cortice membranaceo, albo, continuo, demum in superficie interiore peridii exsiccando furfuraceo-diffracto; gleba obsoleta; capillitio pallide olivaceo dein atro-griseo; sporis globosis, levibus, 3  $\mu$ . diam.

*Hab.* ad Muscos, New York, Amer. bor. — Peridium 1-1,5 cm. alt. — *L. rimulatum* Peck (Syll. IX, p. 276) Ita, nec «*simulatum*» ut ex err. typ. impressum fuit, legendum.

**SCLERODERMA** Horn. — Syll. VII, p. 134, IX, p. 278.

1. **Scleroderma vulgare** Horn. — Syll. VII, p. 134. — v. **novo-guineense** Henn. Fung. novoguin. II, p. 37. — Depresso-globosum, substipitatum v. ramoso-radicatum; peridio coriaceo, duro, isabellino, rugoso-verrucoso v. rimoso, irregulariter dehiscenti, intus flavo-citrino; gleba olivacea, floccis subhyalinis, laxis; sporis globosis, atrofusis, echinato-verrucosis, 7-8  $\mu$ . diam. 986

*Hab.* ad terram, Gogol Novæ Guineæ.

2. **Scleroderma Geaster** Fr. — Syll. VII, p. 138. — var. **socotranum** P. Henn. F. Aethiop. I, p. 100. — Peridio sessili, depresso-globoso, firmo, brunneo, superficie levi, glabro, subsericeo, basi rugoso, apice usque ad basim laciniato-dehiscenti, laciniis 8-10 triquetrolanceolatis, acutis, revolutis, papyraceo-coriaceis; capillitio obscure brunneo, floccis breviusculis, ramosis, spinosissimis, carneo-brunneis; sporis globosis, atrofusis, dense verrucosis, 10-12  $\mu$ . diam. 987

*Hab.* in insula Socotra, inter Euphorbias. — Peridium dehiscent, 16-17 cm. diam.

**PHELLORINA** Berk. — Syll. VII, p. 145, IX, p. 279.

1. **PHELLORINA squamosa** Kalchbr. et M. Ow. Syll. VII, p. 145. — Var. **mongolica** P. Henn. F. Afr. p. I, 362. — Alba, globosa, squamis pergameneis oblecta; stipite intus solido, basi nodoso-incrassato squaroso; sporis globosis, levibus 4-6  $\mu$ . diam., pallide brunneis. 988

*Hab.* in deserto Wadi Arabah Aegypti (SCHWEINFURTH). — Peridium usque ad 8-9 cm. diam.; stipes 15 cm. long., basi usque ad 8 cm. cr.

**POLYSACCUM** DC. — Syll. VII, p. 146, IX, p. 280.

1. **Polysaccum album** Cooke et Mass. Grev. XX, p. 36. — Peridio globoso, 5-6 cm. diam., albido, levi, nitido, deorsum in basim stipitiformem brevissimam, inæqualem, crassam, attenuato; peridiolis 989



seu loculis inæqualiter polyhedricis, 2-3 mm. diam.; gleba flavo-olivacea; sporis globosis, grosse verrucosis, 9-10  $\mu$ . diam. dilute flavo-olivaceis.

*Hab.* ad terram, Dundoo, Quensland Australiæ (MARTIN).

2. **Polysaccum Pisocarpium** Fr. Syll. VII, p. 149. — var. **novo-ze-landica** Henn. Fung. novoguin. II, p. 37 (*Pisolithus*). — Peridio subclavato-globoso, substipitato, radicato, rigido, varie diffracto, rugoso-tessellato, ochraceo-brunneo, usque ad 5 cm. alt., 3 cm. cr.; peridiolis magnis, e mutua pressione difformibus, plerumque oblongis, fusco-brunneis; sporis globosis, flavo-fuscis, verrucosis, 4-11  $\mu$ . diam.

*Hab.* ad terram in insula boreali Novæ Zelandiæ.

**ARACHNION** Schwein. — Syll. VII, p. 150.

1. **Arachnion Bovista** Mont. Syll. VII, p. 150. Cfr. Pat. Bull. Soc. Myc. 1891, p. 165, t. XII, f. I. — Peridio subgloboso-difformi, plicato-lobato, ex albo plumbeo; gleba sporangiolis ovoideis griseo-ardesiaceis efformata; basidiis cylindraceis, claviformibus, basi attenuatis apice rotundatis, 2-4-sporis; sporis olivaceis, globosis, 3-4  $\mu$ . diam.

*Hab.* ad terram, Egido prope Quito. — Peridium 0,5-2 cm. diam.; sporangiola 100-300  $\mu$ . long.; basidia 16  $\approx$  3.

**EMERICELLA** Berk. Syll. VII, p. 154. — Quoad relationes hujus generis cum *Inzengæa* et *Theclospora* cfr. Grev. XIX, p. 108.

*Fam. 4. Hymenogastraceæ Vittad.*

**HYSTERANGIUM** Vitt. — Syll. VII, p. 155.

1. **Hysterangium coriaceum** Hesse Hypog. Deutschl. I, p. 101, t. VII, f. 24. — Peridio crassissimo, coriaceo, levi, albido, ad lucem v. udo rubenti; gleba e griseo olivacea; sporis hyalinis, coacervatis griseo-iridibus, 8-10  $\approx$  3.

*Hab.* hypogæum in prov. Hessen-Nassau Germaniæ.

2. **Hysterangium calcareum** Hesse Hypog. Deutschl. I, p. 97, t. VII, f. 21 et 23. — Peridio initio carnoso, dein chartaceo et fragili; gleba e cæruleo olivacea; sporis hyalinis, late ellipsoideis, exosporio gelatinoso-incrassato, 11-13  $\approx$  4-5.

*Hab.* hypogæum in prov. Hessen-Nassau Germaniæ.

**OCTAVIANIA** Vitt. — Syll. VII, p. 158, IX, p. 280.1. **Octaviania mutabilis** Hesse Hypog. Deutschl. I, p. 77, t. VII, f. 10-13, 994

18. — Peridio juniore albo, dein tomento luteolo tecto, ad lucem initio viridulo sed demum atro-brunneo et violaceo; gleba atro-brunnea; loculorum dissepimentis angustis griseo-albis, helicoideo-tortis; sporis atro-brunneis, exosporio aculeato præditis, 12-13  $\mu$ . diam.

*Hab.* semi-hypogæa in prov. Hessen-Nassau Germaniæ. — Peridium vix  $\frac{1}{2}$  mm. cr.

2. **Octaviania tuberculata** Hesse Hyp. Deutschl. I, p. 75, t. VII, f. 14, 995

IX, f. 16-24. — Peridio crasso, multigibboso-sulcato, primo albo, udo luteolo dein brunneo; loculorum dissepimentis albidis, non helicoideo-tortis; sporis atro-brunneis, exosporio incrassato, aculeato præditis, 12-13  $\mu$ . diam.

*Hab.* sub terra in prov. Hessen-Nassau Germaniæ. — Peridium 1 mm. cr.

3. **Octaviania brunnea** Hesse Hypog. Deutschl. I, p. 78. — Peridio 996

brunneo; gleba grisea, copiose locellata, hyphis laxè intricatis, loculorum dissepimentis angustis; sporis brunneo-luteis, breviter aculeatis, 11-13  $\mu$ . diam.

*Hab.* sub foliis dejectis in prov. Hessen-Nassau Germaniæ. — Peridium 2 mm. cr.

4. **Octaviania lanigera** Hesse Hypog. Deutschl. I, p. 79, t. VI, f. 7-8. 997

— Peridio eximie lanato, albo-flavido, basi chordis mycelii filiformibus prædito; gleba aurea; lacunis valde ampliatis, partim tantum sporis repletis; sporis flavidis, late aculeatis; 12-14  $\mu$ . diam.

*Hab.* semi-hypogæa in prov. Hessen-Nassau Germaniæ. — Peridio circ. 1 mm. cr.

5. **Octaviania levis** Hesse Hypog. Deutschl. I, p. 80. — Peridio glo- 998

boso, subregulari, levi, non gibboso nec sulcato, cortice tenui; gleba flavida; lacunis numerosis, angustissimis, nudo oculo non conspicuis; sterigmatibus longissimis; sporis flavis, mediocriter aculeatis, 10-13  $\mu$ . diam.

*Hab.* semi-hypogæa in prov. Hessen-Nassau Germaniæ.

**SCLEROGASTER** Hesse Hypog. Deutschl. I, p. 84 (Etym. *scleros* durus et *gaster* h. e. peridium). — Peridium lanatum, primo fragile dein carnosum, compactum, gleba celluloso-marmorata, cellulæ minutissimæ, angustæ, nudo oculo non perspicuæ; basidia 4-8 ( sæpius 7)-spora; paraphyses non septatæ; cystidia crasse clavata; sterig-

mata brevia; sporæ minute asperatæ, sphaericæ, ochraceæ. Fungus incomplete subterraneus.

1. **Sclerogaster compactus** (Tul.) Sacc. *Oclaviania* Tul. Hyp. p. 79, 999  
t. XI, f. 3, Syll. VII, p. 160, *Sclerog. lanatus* Hesse l. c. t. V, f. 11. — Peridio albo, lanato, primo fragili dein carnoso; gleba floccosa, initio alba dein armeniaca; sporis globosis, minute verrucosis, ochraceis, 3-4  $\mu$ . diam.

*Hab.* inter folia dejecta arborum in provincia Hessen-Nassau Germaniæ et in Gallia, Germania et California. — Peridium avelanæ magnitudine v. minus, basi chordis mycelio connexis præditum.

**RHIPOGON** Fr. — Syll. VII p. 161. IX p. 280.

1. **Rhizopogon violaceus** Cooke et Massee Grev. XXI 21 p. 1. — 1000  
Peridio deformi, sphaerico-depresso, fumoso-brunneo, pruina pallide violacea tecto, coriaceo, intus dein olivaceo; gleba lacunosa, dissepimentis albidis; sporis ellipsoideis, hyalinis v. aurantiaco-tinctis, levibus, 6-7  $\approx$  3-4.

*Hab.* sub terra et demum subsuperficialis, Nova Zelandia (Kirk).

**HYMENOGASTER** Witt. — VII p. 168, IX p. 281.

1. **Hymenogaster sulcatus** Hesse Hypog. Deutsch. I p. 111 c. VII f. 1001  
27. — Peridio primo flavo dein atro-brunneo, extus subfloccoso, obtuse gibboso, profunde sulcato; gleba brunneo-flava; sporis lacunas fere omnino implentibus, limoniformibus, breviter obtuseque papillatis, exosporio valde asperato præditis, 24-36  $\approx$  10-16, rubro-brunneis.

*Hab.* hypogæus in prov. Hessen-Nassau Germaniæ.

2. **Hymenogaster tomentellus** Hesse Hypog. Deutschl. I p. 112. — 1002  
Peridio aureo, tenui, extus tenuiter pannoso; gleba rubro-brunnea; sporis limoniformibus, 28-29  $\approx$  11-13, exosporio sæpe corrugato, ex aureo atro-brunneo et papilla longa, subobtusa, translucenti præditis.

*Hab.* hypogæus in prov. Hessen-Nassau Germaniæ.

3. **Hymenogaster pruinatus** Hesse Hypog. Deutschl. I p. 113 t. VII f. 1003  
31. — Peridio odorato, e griseo atro-flavo; gleba atro-brunnea; sporis limoniformibus, 21-27  $\approx$  10-14, breviter papillatis cum residuo pedicelli 2  $\mu$ . long., brunneis, exosporio minute striato.

*Hab.* hypogæus in prov. Hessen Nassau Germaniæ.

4. **Hymenogaster gilvus** Hesse Hypog. Deutschl. I p. 117. — Peridio 1004  
flavo, omnino levi; gleba viridulo-flava; sporis atro-brunneis, exo-

sporiorum valde rugosorum præditis 18-21  $\approx$  10-12, apice bene papillatis et basi cum pedicelli residuo 2-2,5  $\mu$ . long.

*Hab.* hypogæus in prov. Hessen-Nassau Germaniæ.

5. **Hymenogaster reniformis** Hesse Hypog. Deutschl. I p. 119. — Pe- 1005  
ridio succineo-flavo, basi valde impresso, reniformi, gleba flavida; sporis anguste ovoideis, atro-flavis, 16-20  $\approx$  8-10, breviter papillatis et cum residuo pedicelli 1  $\mu$ . long., exosporio rugoso.

*Hab.* in terra sabulosa in prov. Hessen-Nassau Germaniæ.

6. **Hymenogaster pilosiusculus** Hesse Hypog. Deutschl. I p. 127 t. 1006  
VII f. 38. — Peridio tenuiter pannoso, e citrino atro-flavo; gleba citrina; sporis late ellipsoideis 16-26  $\approx$  4-8, apice sæpe rotundatis et minute papillatis, basi cum pedicelli residuo brevi et angusto, exosporio rugoso.

*Hab.* hypogæus in prov. Hessen-Nassau Germaniæ.

7. **Hymenogaster cereus** Hesse Hypog. Deutschl. I p. 128 t. VII f. 1007  
39. — Peridio opace flavido; gleba e ceroso carnosa; sporis late ellipsoideis, flavido-brunneis, 16-19  $\approx$  6-10, exosporio rugoso, apice rotundatis, non papillatis basi cum pedicelli residuo brevi et latiusculo.

*Hab.* fere hypogæus in prov. Hessen-Nassau Germaniæ.

8. **Hymenogaster disciformis** Hesse Hypog. Deutschl. I p. 128. — 1008  
Peridio depresso, discoideo, cremeo, subfloccoso; sporis ellipsoideis, flavo-brunneis, 12-16  $\approx$  5-7, apice rotundatis, non papillatis, basi cum pedicelli residuo brevissimo et latiusculo; exosporio rugoso.

*Hab.* sub foliis dejectis in prov. Hessen-Nassau Germaniæ.

9. **Hymenogaster cinereus** Hesse Hypog. Deutschl. I p. 132 t. VII f. 1009  
37. — Peridio niveo; gleba cinerea; sporis fusioideis, aurantiacis, 21-30  $\approx$  9-12, exosporio asperato.

*Hab.* subhypogæus in prov. Hessen-Nassau Germaniæ.

10. **Hymenogaster limosus** Hesse Hypog. Deutschl. I p. 133 t. VII p. 1010  
42. — Peridio rubro-brunneo; loculorum dissepimentis flavis; sporis fusioideis, aureis, 16-21  $\approx$  6-10, acute papillatis, cum pedicelli residuo brevi, tenui, non incrassato.

*Hab.* sub foliis in prov. Hessen-Nassau Germaniæ.

11. **Hymenogaster Cerebellum** Cav. Fung. Long. exsicc. Pugill. III 1011  
N. 109. — Globosus v. subangulosus, arrhizus; peridio haud separabili albo v. flavescenti, immutabili, pilis flavis, clavatis, subsericeo, rimoso-cerebriformi v. mammoso verrucoso, rimis et valleculis parum profundis, humo conspurcatis; basi insculpta circulari, peridio corrugato limitato, sæpe radiculis adhærenti; gleba molli, subelastica

fragili ex albo roseo-lilacinia demum ferruginea; odore primum gratissimo, fungino demum nauseoso; septis concoloribus; sporis ovatis v. limoniformibus, apice mucronatis, basi truncatis e citrino flavis ochraceo-brunneis, 14-16  $\approx$  8-10.

*Hab.* ad radices Casuarinarum et Myrtacearum in Horto bot. Ticinensi Ital. bor. — *H. tenero* Berk et *H. vulgari* Tul. affinis.

**HYDNANGIUM** Wallr. — Syll. VII p. 175, IX p. 280.

1. **Hydnangium nudum** Hazslniszki in Hedwigia 1877 p. 44. — Sub-1012  
globosum v. gregario-difforme, glabrum, fuscum; gleba elastica, multilocellata; sporis globosis, in apicibus hypharum coniformibus deciduis, ochraceis, episorio pellucido, verrucoso, 16-18  $\mu$ . diam.

*Hab.* sub terra in Hungaria.

2. **Hydnangium Soderstromii** Lagerh. Bull. Soc. Myc. 1893 p. 142 1013  
t. VIII fig. VI. — Globosum v. semiglobosum, valde gibbosum, superne rotundatum, inferne subplanum; basi attenuata, brevi instructum, 3-4 cm. lat.; peridio tenui evanescenti, carneo-rufo; gleba pallide albo-carnea; cellulis sinuosis, minutis,  $\frac{1}{4}$ -1 mm. long., vacuis, parietibus majusculis, e basi radiantibus; basidiis subcylindraceis, hyalinis, guttulatis, 2-sterigmaticis, 70  $\approx$  8-10; cystidiis nullis; sporis globosis, pallidissime fuscis 12-15  $\mu$ . lat., echinatis, verrucis obtusis, brevibus, crassiusculis.

*Hab.* ad terram sub Eucalyptis, pr. Quito in Æquatoria Amer. austr. (SODERSTROM).

3. **Hydnangium nigricans** Kalchbr. Grev. X p. 107. — Globosum, nucis 1014  
juglandinæ magnitudine, extus glabrum nigricans, intus e pallido ferrugineum; sporis globosis, 15  $\mu$ . diam.

*Hab.* in campis graminosis sub Acaciis ad pedem montis Boschberg pr. Somers. East Africae (MAC OWAN).

4. **Hydnangium tasmanicum** Kalchbr., Massee in Grev. vol. XIX p. 1015  
95. — Subglobosum; peridio crasso, atro-brunneo, sicco ruguloso, sine basi sterili; glebæ loculis amplis, irregulariter angulosis, 1-2 mm. diam., dissepimentis crassis, ochraceis, non fissis; basidiis elevatis, 4-sporis, sterigmatibus brevibus, sporis globosis, brunneis episorio verrucis magnis, irregularibus dense tecto, 13-14  $\mu$ . diam.

*Hab.* ad terram, Tasmania Australiæ. — Fungus 2-5 cm. diam.

**PHLYCTOSPORA** Corda. — Syll. VII p. 179, IX p. 281.

1. **Phlyctospora sclerodermoides** Clem. Bot. Surv. Nebr. Rep. III, 1893, 1016  
12. — Subterranea, depresso globosa, subglabra, brunnea; peridio

crasso, coriaceo, radicato; gleba firma, castanea; sporis crebris, globosis, brunneis, obsolete reticulato-papillatis, muco hyalino obductis, 18-25  $\mu$ . diam. —

*Hab.* in cultis, Lincoln Nebraska Amer. bor. — Peridium 3,5 cm. lat., 2,5 cm. alt. —

2. **Phlyctospora maculata** Patouill. Bull. Soc. Myc. 1892 p. 189. — 1017  
Globosa v. ovoidea, 1,5-3 cm. prope basim et apicem depressa, levis, pallide rufa, hinc inde squamulis brunneis maculata, fibris nigris, paucis, ramosis, brevibus, prædita; exoperidio corneo-coriaceo, 2 mm. cr. intus brunneo, ex hyphis parallelis radiantibus composito, pagina interne luteola; endoperidio tenui, floccoso, luteo ex hyphis ramosis, laxè contextis composito; gleba cinereo-violacea, pulverulenta, venis albis strictis, ad instar *Sclerodermatis* marmorata; sporis globosis verruculosis 7-8  $\mu$ . lat., nucleatis, purpureo-rufis, episporio cellulis hyalinis tecto.

*Hab.* verisimiliter hypogæa Su-Tchuen Sinarum.

#### *Genera dubia.*

**PACHYDERMA** Schulzer in Hedw. 1877 p. 45 (Etym. *pachys* crassus et *derma*). — Peridium sessile, valde incrassatum, coriaceum, fragile, indehiscens, glabrum, intus absque loculamentis; flocci capillitii e basi emergentes, exserti, ramosi ubique verrucosi. Sporæ in his verruculis nascentes, sessiles, globosæ.

1. **Pachyderma Strossmayeri** Schulzer l. c. — Peridio depresso, adulto 1018  
fulvo, sicco humorem absorbente; sporis granulatis.

*Hab.* cæspitosum ad Quercus pr. Vinkovce Hungariæ.

**HEMIGASTER** Juel in Bot. Centralbl. 1895 n. 3, p. 87. — Peridia capitata, stipitata, intus columella prædita, 1-locularia, mollia; basidia peripherica 1-cellularia, apice tetraspora; sporæ continuæ, carneæ.

1. **Hemigaster candidus** Juel, l. c. — Habitus *Pilacris Petersii* sed 1019  
characteres generis. Chlamydosporæ quoque adsunt intra peridia.

*Hab.* gregatim in excrementis Cuniculi et Caviæ, Upsalæ Sueciæ.



## HYPODERMEÆ DE BARY

Syll. VII, p. 449, IX, p. 282.

Fam. 1. Uredinaceæ Brongn. \*)

**UROMYCES** Link. — Syll. VII, p. 531, IX, p. 291.

1. **Uromyces Pazschkeanus** P. Henn. F. Æthiop. p. 107, t. V, f. 5. — 1020

Soris amphigenis, sparsis v. gregariis sæpe confluentibus, diutius tectis, cinnamomeis, dein pulverulentis, atrobrunneis, maculis pallide cinnamomeis; uredosporis subglobosis, ellipsoideis v. ovoideis, pallide flavis, verrucosis 21-28  $\approx$  19-24; teleutosporis subglobosis v. ovoideis, rufo-brunneis, levibus, apice incrassatis papillisque flavo-brunneis, verruciformibus ornatis, 25-35  $\approx$  21-28; pedicello hyalino, subclavato 30-50  $\approx$  18-20.

*Hab.* in foliis vivis Vignae spec., in Abyssinia.

2. **Uromyces coloradensis** E. et E. New West. Amer. Fung. in Ery- 1021

thea p. 204. — *Æcidii*s (*Æc. porosum* Peck?) epiphyllis, æqualiter denseque sparsis, erumpentibus, primo hemisphæricis, dein apertis,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., margine effusis, lacero-dentatis; æcidiosporis globosis, ovoideis v. angulatis, 15-22  $\approx$  12-15, saturate aurantiacis; soris teleutosporiferis, amphigenis,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., irregulariter sparsis, atris dum tectis, nudatis castaneis; teleutosporis ovoideis, globosis, angulatis v. irregularibus, dilute castaneis, levibus, episorio apice apiculatis et distincte papillatis; pedicellis fragilibus, hyalinis, 30-40  $\mu$ . long.

*Hab.* in foliis Astragali v. Oxytropidis, Fort Collins Amer. bor. (C. F. BAKER).

3. **Uromyces Gürkeanus** P. Henn. F. Æthiop. p. 107, t. V, f. 4. — 1022

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\*) Cfr. Grev. XX, p. 109-110, ubi species Uredinearum plures veluti Syllogi addendæ, citantur. Earum paucae hic describuntur; nonnullarum diagnoses hucusque non innotuerunt; plurimæ autem ut synonymicæ habendæ sunt, hinc prætermittuntur. De Hypodermeis conferendæ sunt plurimæ recentiores illustrationes cl. DIETELII, BARCLAYI et MAGNUSII. Dolendum sane quod eximie postremi auctoris contributiones, optimis iconibus plerumque locupletes, sint ubicumque fragmentarie dispersæ et diagnosisibus systematicis carentes!

Soris uredosporiferis amphigenis, sparsis, rotundatis, ochraceis; uredosporis globosis, flavo-brunneis, dense verruculosi 21-28  $\mu$ ., episporio usque ad 4  $\mu$ . cr., castaneo-brunneo, aculeato; soris teleutosporiferis amphigenis, sparsis, rotundatis, pulvinatis, atro-brunneis, pulverulentis; teleutosporis globosis v. ovoideis 18-25  $\approx$  17-23, fusco-brunneis, dense aculeatis nec lineolatis nec papillatis, pedicello tenui, hyalino, fragili, usque ad 10  $\mu$ . long.

*Hab.* in foliis vivis *Loti ægyptiaci*, in *Ægypto*.

4. **Uromyces Ciceris-arietini** (Grogn.) Jacz. et Boy. Mat. myc. Montp. 1023  
p. 19. *Uredo Ciceris-arietini* Grogn. — Pustulis brunneolis, nitidulis; teleutosporis ovoideis, breve hyalino-stipitatis, apice incrassatis, levibus; brunneis, 25  $\approx$  20.

*Hab.* in *Cicere arietino*, Montpellier Gallia.

5. **Uromyces Dietelianus** Pазschke Hedw. 1891, p. 199. — Soris amphigenis, fuscis, liberis, pulveraceis, irregulariter dispersis, maculas amphigenas indeterminatas generantibus; teleutosporis ovatis v. plus minus globosis, fuscis, episporio incrassato, rugoso papillaque 10-12  $\approx$  2-3 præditis, 20-28  $\approx$  20-25, stipite fragili cr. 20  $\mu$ . long. suffultis.

*Hab.* in foliis *Bauhiniae spec.* in Brasilia.

6. **Uromyces Schweinfurthii** P. Henn. Malp. 1891, p. 89. — Soris teleutosporiferis confluentibus, totam superficiem ramulorum obtinentibus, ramulos in flagella paulo incrassata teretia apice attenuata deformantibus, fuscis; teleutosporis ellipticis v. ovatis, plerumque 20-24  $\approx$  15-20; episporio læte ochraceo, crasso, levi; pedicello hyalino.

*Hab.* in ramulis *Acaciae Ehrenbergianae*, in Arabia.

7. **Uromyces deciduus** Peck 45 Rep. p. 25. — Maculis nullis; soris teleutosporiferis minutis, rotundis, pulverulentis; hypophyllis v. amphigenis, rubiginosis; teleutosporis oblongo-ellipsoideis v. oblongo-piriformibus, 20-30  $\approx$  12,5-15, episporio rugoso v. verruculoso, a pedicello brevi mox deciduis; paraphysibus paucis, teleutosporis immixtis, clavatis v. capitatis, 30-40  $\mu$ . long.

*Hab.* in ramis junioribus *Prosopidis pubescentis*, in montibus Mescal, Arizona Amer. bor. (Jones).

8. **Uromyces Poiraultii** Har. Rev. Myc. 1891, p. 118. — Soris teleutosporiferis primum sparsis, rotundatis v. oblongis, initio epidermide bullata tectis deinde epidermide fissa et expoliata confluentibus plagaque late longeque expansas efficientibus, atro-fuscis, pulvinatis, cauliculis, in utroque latere caulium dispositis; teleutosporis diffor-

mibus, pro more oblongis, ellipticis v. subclavatis, dilute castaneis, subtiliter punctulatis, episorio sat tenui, apice valde incrassatis, calyptratis, calyptra frequentius ad latus dejecta, obtuse conoidea, levi, 8  $\mu$ . æquante, basi leviter attenuatis v. plus minus abrupte truncatis 20-32  $\approx$  12-20; pedicello hyalino ad basin attenuato, 40-50 long,

*Hab.* ad caules siccos *Spiraeæ Ulmariae* in Gallia.

9. **Uromyces æruginosus** Speg. Fl. Guar. nonnulli p. 20, n. 56. — 1028

Maculis epiphyllis indeterminatis, viridi-ærugineis; acervulis hypophyllis, compactis, gregariis, majore centrali, ceteris minutis circumdato; teleutosporis obovatis non v. vix umbonatis, levibus, intense fuliginis, 20-24  $\approx$  16-20; pedicello gracili, longiusculo, 50-60  $\approx$  4.

*Hab.* ad folia *Sapindacearum* (?), in silvis pr. Posta-cuê, Amer. austr.

10. **Uromyces Pittospori** P. Henn. F. Afr. I, p. 370. — Soris hypo- 1029

phyllis, sparsis, subrotundis, rarius confluentibus, epidermide vix colorata, demum rimose dehiscente tectis, cinnamomeis v. brunneofuscis; uredosporis ellipticis, piriformibus v. subglobosis, læte brunneis, granulatis, episorio tenui subfusco, minute verruculoso 20-30  $\approx$  17-25; teleutosporis ellipticis v. ovoideis, brunneis, episorio verruculoso, subfusco, 25-32  $\approx$  18-25; pedicello brevi, hyalino 4-8  $\mu$ . longo.

*Hab.* ad folia *Pittospori abyssinici*, in Abyssinia.

11. **Uromyces Barbeyanus** P. Henn. F. Æthiop. I, p. 107, t. V, f. 3. 1030

— Soris uredosporiferis hypophyllis raro epiphyllis, minutis, singularibus, sparsis, rotundato-elevatis, diu tectis, ochraceis; uredosporis clavatis v. longe ellipsoideis, dense verrucoso-aculeatis, hyalinis subflavescentibus, 32-48  $\approx$  18-24, episorio 3-5  $\mu$ . cr.; soris teleutosporiferis amphigenis, sparsis, rotundatis, nigris; teleutosporis subovoideis v. obovatis raro elongato-sphæroideis, apice papilla pallidiore instructis, rufo-brunneis, granulato-verrucosis, 30-42  $\approx$  17-25, episorio verrucoso 4  $\mu$ . cr., pedicello hyalino, persistenti, 26-36  $\approx$  5-8.

*Hab.* in foliis vivis *Rhois falcatae*, in Abyssinia.

12. **Uromyces Cachrydis** Har. Bull. Soc. Myc. 1891, p. 141. — Soris 1031

utriusque formæ caulinis deformantibus; æcidiiis numerosis confluentibus in plagam flavam concentricam 2 cm. long. distributis; pseudo-peridiis præminentibus, albidis, cylindraceo-cupulatis, ore fimbriato-laceratis, non v. vix reflexis; æcidiosporis rotundato-vel oblongo-polygonis, episorio sat crasso hyalino, plasmate flavidulo,

levibus 20-28  $\approx$  14-20; soris teleutosporiferis bullatis, sine macula, oblongis v. lanciformibus, confluentibus, rubiginosis, epidermide demum fissa primum tectis; teleutosporis ovatis v. rotundatis; levibus, episporio crassiusculo, apice incrassato, pallide castaneis, basi leniter attenuatis 24-32  $\approx$  16-20, pedicello longiusculo hyalino, persistenti ad 60  $\mu$ . longo suffultis.

*Hab.* ad ramos Cachrydis in Hispania Bœtica et ad Prangos in Lusitania.

13. **Uromyces Melothriæ** P. Henn. F. Æthiop. I, p. 108, t. V, f. 6. 1032

— Maculis nullis v. obsoletis; soris hypophyllis rarius epiphyllis, sparsis, sæpe gregariis confluentibusque, ferrugineis, pulveraceis, rotundatis v. elongatis, uredosporis globosis, ellipsoideis v. ovoideis, flavo-ochraceis, verruculosus 28-38  $\approx$  25-30, episporio rufo-brunneo, dense verrucoso; teleutosporis ovoideis v. piriformibus, ochraceis, punctato-verrucosis, 28-40  $\approx$  25-30, episporio rufo-brunneo, echinato-verrucoso; pedicello brevi, fragili, hyalino, 3-8  $\mu$ . long.

*Hab.* in foliis vivis Melothriæ tomentosæ, in Abyssinia.

14. **Uromyces Hieronymianus** P. Henn. Hedw. 1894, p. 230. — Ma- 1033

culis fuscis, rotundatis; soris amphigenis, subcutaneo-erumpentibus, subcircinantibus, cinnamomeis; uredosporis 26-30  $\approx$  20-24 verrucosis; teleutosporis ovoideo-piriformibus 26-38  $\approx$  20-28, aculeato-verrucosis, læte brunneis.

*Hab.* in foliis Clytostomatis calystegioides, Uruguay (LORENTZ leg., Prof. HIERONYMUS comm.)

15. **Uromyces Lasiocorydis** P. Henn. Fr. Æthiop. I, p. 109, t. V, 1034

f. 7. — Soris amphigenis, sparsis, brunneis, rotundatis, pulvinatis, epidermide cinctis; uredosporis globosis v. subglobosis, verrucosis, fusco-brunneis, 21-25  $\approx$  19-24, episporio atro-fusco, aculeato-verrucoso, 1,5-2  $\mu$ . crasso; teleutosporis globosis v. ovoideis, minute granulatis, flavis 24-26  $\mu$ . long.; pedicello hyalino, fragili 5-15  $\approx$  3.

*Hab.* in foliis, bracteis, calycibusque Lasiocorydis abyssinicae, in Abyssinia.

16. **Uromyces Gentianæ** Arthur Bot. Gaz. 1891, pag. 227. — Soris 1035

sparsis, oblongis v. rotundis, mox denudatis, flavo-brunneolis; uredosporis globosis v. ovoideis, episporio tenui echinulato, 18-20  $\approx$  19-25; teleutosporis globosis v. ovoideis, flavido-brunneis, apice rotundatis, subincrassatis, episporio tenui, obscure papillatis, 15-19  $\approx$  19-23; pedicello fragili, brevissimo.

*Hab.* ad Gentianam quinquefoliam var. occidentalem in America boreali.

17. **Uromyces Kurtzii** P. Henn. Hedw. 1894, p. 230. — Soris folii- 1036  
cauliculis, dense gregariis, bullatis, confluentibus, ochraceo-castaneis,  
deformantibus; teleutosporis variis ovoideo-subtriangularibus, 17-  
40 = 12-20, apice incrassato, subrotundato v. 1-3-corniculatis.

*Hab.* in foliis caulibusque (quos deformat) Senecionis sp.  
Argentina (F. KURTZ). — Species singularis.

18. **Uromyces Gnaphalii** E. et E. New West Amer. Fung. in Erythea 1037  
p. 204. — Soris teleutosporiferis sparsis, hypophyllis, 1 mm. diam.,  
nudis, atro-castaneis; teleutosporis globosis v. ellipsoideis, levibus,  
apice valde incrassatis sed non distincte papillatis, 22-30 = 19-22,  
contextu granuloso; stipite hyalino, cylindraceo, 80-100 = 4-5.

*Hab.* in foliis Gnaphalii sp., Fort Collins, Amer. bor.

19. **Uromyces andinus** Magn. Mykol. Miscell. p. 48-53, t. IV, f. 16- 1038  
18. — Affinis *Urom. scutellato* sed teleutosporarum episporio di-  
stincte reticulato, areolis longitudinaliter elongatis; teleutosporis  
26-33 = 15-19, brevissime stipitatis.

*Hab.* in foliis Euphorbiæ cujusdam, Santiago Chili (ALB.  
MEYER).

20. **Uromyces verrucipes** Vuill. Bull. Soc. bot. de France 1894, p. 285. 1039  
— Acervulis rufis, oblongis v. elongatis; uredosporis subsphæricis  
v. ellipticis 16-19 = 14-16; pedicello hyalino, levi, 4-5  $\mu$ . long.;  
teleutosporis pallide brünneis, sphæricis v. basi subattenuatis, 26-  
28 = 24-27; pedicello 48-50  $\mu$ . long. ubique verrucoso.

*Hab.* in foliis ramisque Euphorbiæ Pepli, pr. Nancy in  
Gallia — *U. proeminenti* et *U. scutellato* affinis.

21. **Uromyces Macounianus** E. et E. New Sp. North Amer. Fung. in 1040  
Proceed. Acad. S. N. Philad. 1893, p. 155. — Soris uredosporife-  
ris amphigenis, convexis v. subhemisphæricis, epidermide lacera cin-  
ctis, sæpius confertis, dilute castaneis dein saturatioribus, circ. 1  
mm. diam.; uredosporis globosis v. ovatis, echinulatis, circ. 15  $\mu$ .  
diam.; teleutosporis globosis v. ovato-ellipsoideis, pallide brunneis,  
leniter tuberculato-echinulatis præcipue ad apicem ibique non in-  
crassatis et sæpius epapillatis; pedicello spora brevior, hyalino,  
deciduo.

*Hab.* in foliis Euphorbiæ sp. maculatæ affinis, Vancouver  
Island in Columbia Britannica Amer. bor.

22. **Uromyces Cluytiæ** Kalchbr. et C. — Syll. VII, pag. 556. — 1041  
var. **erythrænsis** P. Henn. F. Æthiop. I, p. 108. — Maculis au-  
rantiacis v. purpureis, soris uredosporiferis, hypophyllis, sparsis v.  
gregariis, sine ordine dispositis, rotundatis, diutius tectis, ochraceis,

pulverulentis; uredosporis ovoideis, ellipsoideis v. subglobosis, pallide ochraceis, granuloso-verrucosis, 25-35  $\approx$  17-26; teleutosporis ellipsoideis, sæpius vertice pallidiore papillatis, atro-brunneis, dense aculeato-verrucosis, episporio usque ad 7  $\mu$ . crasso; pedicello elongato, hyalino; persistenti, usque ad 60  $\mu$ . long.

*Hab.* in foliis vivis Cluytiæ abyssinicæ, in Erythræa Abyssiniæ.

23. **Uromyces Cyathulæ** P. Henn. F. Æthiop. I, p. 107, t. V, f. 2. 1042

— Maculis flavis v. fuscis; soris plerumque hypophyllis, sparsis v. gregariis, sæpe confluentibus, ochraceo-pulverulentis et cauliculis, pustulas duras, magnitudine pisi, varias efformantibus, evolutis epidermide rupta cinctis et partim tectis; uredosporis subglobosis, ellipsoideis v. ovoideis, minute verrucosis, fusco-brunneis 24-34  $\approx$  22-30; episporio atro-fusco 3-5  $\mu$ . cr.; teleutosporis obovoideis, piriformibus v. clavatis, flavo-brunneis, aculeato-verrucosis, 26-38  $\approx$  18-24, pedicello brevi, hyalino 7-10  $\mu$ . long.

*Hab.* in foliis vivis caulibusque Cyathulæ globuliferæ, in Abyssinia.

24. **Uromyces Suædæ** Jaczewski Bull. Soc. Myc. 1893, p. 47, t. III, 1043

fig. V. — Æcidiiis numerosis, valde conspicuis, subsuperficialibus rufo-aurantiacis; pseudoperidio cupuliformi-cylindræo, regulari, summo margine dentato et decolorato, æcidiosporis polygonalibus flavo-aurantiis, membrana crassa, granulosa 20  $\approx$  15; teleutosporis brunneis, longe pedicellatis, levibus, globulosis v. ovoideis, summitate incrassatis, 1-cellularibus, 22-25  $\approx$  20-22.

*Hab.* in Suæda fruticosa in Algeria.

25. **Uromyces Commelinæ**. Cooke — Syll. VII, p. 573. — var. **abyssinicus** P. Henn. F. Æthiop. I, pag. 106. — 1044

Soris uredosporiferis amphigenis, sparsis, singularibus, minutis, rotundatis, vix elevatis, ochraceis, maculis flavis; uredosporis subglobosis v. ellipsoideis, raro ovoideis, ochraceis, verrucosis 20-32  $\approx$  18-27; soris teleutosporiferis amphigenis, singularibus raro gregariis confluentibusque, rotundatis v. elongatis, convexis, fere pulverulentis sed non compactis, epidermide cinctis; teleutosporis subglobosis, ellipsoideis v. clavatis, fusco-brunneis, levibus, apice valde incrassatis, 20-35  $\approx$  18-28; pedicello hyalino, tenui, persistenti, usque ad 70  $\mu$ . long.

*Hab.* in foliis et caulibus Commelinæ spec. in Abyssinia.

26. **Uromyces aureus** Diet. et Holw. Hedw. 1893, p. 30. — Æcidiiis 1045

irregularissime gregariis, sæpe annulos elongatos, pluries interruptos efformantibus; æcidiosporis ovoideis v. e mutua pressione an-



gularis, 29-48  $\approx$  24-37, exosporio hyalino, dense minuteque verrucoso præditis; soris teleutosporiferis inter æcidiorum greges dispositis, irregulariter confluentibus, epidermide grisea, micanti diu tectis; teleutosporis, e globoso ovoideis v. sæpe irregularibus, episporio levi, ubique æqualiter crasso, saturate aureo-brunneo præditis, 29-40  $\approx$  22-32; stipite teleutospora æquilongo.

*Hab.* ad Allium validum, Kings River Cañon Californiæ (E. W. D. HOLWAY).

27. **Uromyces Taubertii** P. Henn. F. Bras. p. 14. — Soris epiphyllis, sparsis, rotundatis, ochraceis, 1-2 mm. diam., planiusculis, primo tectis mox erumpentibus, maculis nullis; uredosporis obovatis, ellipsoideis v. subglobosis, flavis v. brunneis, 15-28  $\approx$  13-21; episporio verrucoso, crasso, flavo; teleutosporis obovatis v. sphæroideo-ellipsoideis 16-25  $\approx$  14-19, episporio verruculoso-aculeato, 2-3  $\mu$ . crasso, flavo-brunneo; pedicello hyalino, brevi, fragili 4-8  $\mu$ . long.

*Hab.* in foliis Dioscoreæ piperifoliæ Willd. in Brasilia.

28. **Uromyces Colchici** Masee Grev. XXI, p. 6. — Soris numerosis, magnis, ellipsoideis, interdum circumstantibus, atro-brunneis, amphigenis; teleutosporis late ellipsoideis v. subglobosis, apice subprominulis, poro germinante unico, episporio circ. 2  $\mu$ . cr., levi, læte brunneis, 28-38  $\approx$  21-28; stipite hyalino, persistenti, basi æqualiter attenuato, 70-80  $\approx$  5-6.

*Hab.* in foliis Colchici spectabilis in horto kewensi Angliæ.

29. **Uromyces Rhynchosporæ** Ell. Descr. new spec. Fung. Journ. of Mycol. 1893, p. 274. — Soris teleutosporiferis hypophyllis sparsis v. gregariis et subconfluentibus, orbicularibus v. subelongatis, 0.5-1 mm. diam., nigris, nudis, epidermide lacera laxè cinctis; teleutosporis clavatis, 20-25  $\approx$  8-12, apice valde incrassatis et saturatius coloratis ibique in rostrum 10-12  $\mu$ . long. productis, pedicello 20-25  $\mu$ . long., subæquali v. basi subincrassato, hyalino v. flavido suffultis.

*Hab.* in Rhynchospora glomeratæ Pennsville, Salem county Amer. bor. (A. COMMONS).

30. **Uromyces Cyperi** P. Henn. F. Æthiop. I, p. 106, t. V, f. 1. — Soris amphigenis, in foliis caulibusque gregariis, raro confluentibus, epidermide tectis, elevatis, firmis, pallide brunneis v. flavis; uredosporis subglobosis, ellipsoideis v. ovoideis, levibus v. subverrucosis, flavis 24-30  $\approx$  21-24; teleutosporis subglobosis v. ellipsoi-

deis, pallide flavis, 22-28  $\approx$  20-25; pedicello hyalino, persistenti, usque ad 40  $\approx$  3-5.

*Hab.* in foliis vivis et calamis Cyperi spec., in Abyssinia.

31. **Uromyces? cyperinus** Speg. F. Guar. nonn. pag. 20, n. 55. — 1050  
Acervulis amphigenis linearibus ferrugineis, 0,5-2 mm. long., 0,5-0,4 mm. lat.; teleutosporis? ovatis v. globosis, 24-26  $\approx$  20-22. episporio non v. vix antice incrassato levi donatis, fulvis; pedicello gracili hyalino.

*Hab.* ad folia viva Cyperaceæ cujusdam pr. Guarapi, Amer. austr.

32. **Uromyces juncinus** Thüm. — Syll. VII, p. 509. — var. **ægyptiacus** P. Henn. F. Æthiop. I, p. 106. — 1051  
Soridis subepidermicis, sparsis; oblongis, postremo epidermidem longitudinaliter disrumpentibus sed non vere liberis, flavo-brunneis; uredosporis subglobosis, ellipsoideis v. ovoideis, brunneis 24-32  $\approx$  22-27, episporio 4  $\mu$ . cr.; teleutosporis ovoideis, ellipsoideis raro clavatis, brunneis, 23-32  $\approx$  19-25, episporio 4  $\mu$ . cr.; pedicello hyalino curvato 14-20  $\approx$  5-6.

*Hab.* in culmis Junci spec., in Ægypto.

33. **Uromyces Hordei** Trac. Desc. new spec. Pucc. and Urom. in Journ. 1052  
Mycol. 1893, VII, p. 281. — Soridis hypophyllis, minutis, sparsis, rotundatis v. ovoideis; teleutosporis brunneis, omnino irregularibus sed sæpius ovoideis v. late clavatis, episporio levi, supra subincrassatis, 15-18  $\approx$  22-26, pedicello brevissimo.

*Hab.* in foliis Hordei pratensis, New Orleans Amer. bor.

34. **Uromyces Arthraxonis** P. Henn. F. Afr. p. 370. — Maculis violaceis v. brunneis, soridis epiphyllis, sparsis, diu tectis, elongatis, flavis v. aurantiacis; uredosporis ellipsoideis v. ovoideis, late ochraceis, flavis v. hyalinis, granulatis 21-28  $\approx$  14-23, episporio hyalino minute verruculoso 2-4  $\mu$ . cr.; teleutosporis piriformibus v. ellipsoideis, hyalinis, episporio 2-3  $\mu$ . cr. minute verruculoso 20-26  $\approx$  15-22, pedicello brevi, hyalino, fragili 4-7  $\mu$ . long. — 1053

*Hab.* ad folia Arthraxonis sp. in Abyssinia.

35. **Uromyces Agropyri** Barcl. Addit. Ured. p. 212. — Amphigenus; 1054  
pustulis linearibus; uredosporis globoso-ovoides pallide brunneis, dense verrucosis 20-23  $\approx$  19-21; poris germinantibus 4-5; teleutosporis flavo-brunneis, apice incrassatis, levibus, 28-37  $\approx$  16-18.

*Hab.* in Agropyri sp., pr. Simla Indiæ.

36. **Uromyces Paniculae** Trac. Descr. new spec. Pucc. and Urom. Journ. 105  
Mycol. 1893, VII, p. 281. — Soridis hypophyllis, ovoideis v. oblongis, subinde confluentibus; uredosporis dilute flavis, leniter echinu-

latis, globosis, 12-16  $\mu$ . diam.; teleutosporis atro-brunneis, ovoideis, levibus, apice incrassatis et subinde rostratis, 14-16  $\approx$  26-30, pedicello attenuato, colorato, spora sublongiore.

*Hab.* in foliis Panici ancipitis in Amer. boreali.

37. **Uromyces Eragrostidis** Trac. Descr. new spec. Pucc. and Urom. 1056

Journal. Mycol. 1893, VII, p. 281. — Soris amphigenis, minutis, sparsis, longis, epidermide tectis; uredosporis dilute flavis, subglobosis, echinulatis, 16-18  $\approx$  17-20; teleutosporis sæpius ovoideis v. obovatis, sæpe angulatis, episporio levi, apice incrassatis, 14-16  $\approx$  22-28; pedicellis leniter tinctis; sporis æquilongis.

*Hab.* in foliis Eragrostidis pectinaceæ, Starkville Amer. borealis.

38. **Uromyces Phalaridis** Jaczewski Bull. Soc. Myc. 1893, pag. 47, 1057

t. III, f. 1. — Maculis ferrugineis, epidermide inflata tectis; teleutosporis paraphysibus, recurvis, brunneis obvallatis; sporis brevi-pedicellatis, verrucosis, ellipticis, pallide flavis 30  $\approx$  20.

*Hab.* ad folia Phalaridis spec. in Algeria.

39. **Uromyces Andropogonis** Trac. Descr. new spec. Pucc. and Urom. 1058

Journ. Mycol. 1893, VII, p. 281. — Soris hypophyllis, ovoideis v. oblongis, subinde confluentibus; uredosporis dilute coloratis, subglobosis, acute echinulatis, 15-17  $\approx$  16-19; teleutosporis atro-brunneis, late ovoideis, apice obtusis, rotundatis, valde incrassatis, 14-16  $\approx$  24-28; pedicello subcolorato, spora duplo longiore.

*Hab.* in foliis Andropogonis virginici, Starkville Americæ borealis.

40. **Uromyces Sporoboli** E. et E. New sp. north Amer. Fun. in Pro- 1059

ceed. Acad. S. N. Philad. 1893, p. 155. — Soris teleutosporiferis sæpius hypophyllis, nigrescentibus, elongatis v. linearibus, 1-4 mm. long., mox nudis; teleutosporis subglobosis, circ. 20  $\mu$ . diam. v. obovatis, 25-30  $\approx$  20-22 v. elongato-piriformibus aut oblongis, 30-40  $\approx$  20-22, apice æqualiter rotundatis et sæpius papillatis, episporio levi, apice distincte incrassatis, castaneis, pedicello 70-100  $\mu$ ., sæpe colorato.

*Hab.* in foliis Sporoboli asperi, Rockport, Kansas Americæ borealis.

41. **Uromyces Kühnii** Krüg. Bericht Zuck. West-Java p. 117, t. IX. — 1060

Soris uredosporiferis hypophyllis, linearibus; uredosporis e globoso ellipsoideis v. piriformibus, contentu aurantiaco, exosporio copiose

aculeato, hyalino, 18-34,5  $\approx$  28,5-57,5, pedicello hyalino clavato suffultis.

*Hab.* in foliis Sacchari offinarum in insula Java.

**MELAMPSORA** Cast. — Syll. VII, p. 586, IX, p. 296.

1. *Melampsora Passifloræ* Har. Bull. Soc. Myc. 1891, p. 143. — So- 1061  
 ris uredosporiferis pustulatis, vix conspicuis, sparsis, hypophyllis, subalbidis, irregularibus; pseudoperidiis explanatis; uredosporis ovatis v. ellipticis, rarius globosis, verrucosis, episporio hyalino crassiusculo, contenu dilute flavo; paraphysibus clavatis, hyalinis 68  $\approx$  20.

*Hab.* ad folia Passifloræ luteæ in horto bot. Avenionensi, in Gallia.

2. *Melampsora congregata* P. Diet. Berichte deut. bot. Gesell. 1888, 1062  
 p. 400, c. ic. — Hypophylla et caulicola; acervulis uredosporarum parvis, solitariis v. in circulos dispositis, non confluentibus, paraphysibus præditis; uredosporis ellipsoideis v. globosis, membrana achroa, echinulata præditis, contenu aurantiaco 16-24  $\approx$  16-20; acervulis teleutosporarum minimis, numerosis, semper dense gregariis, interdum confluentibus, magnas maculas formantibus, spadicæis; teleutosporis unicellularibus, oblongo-cylindraceis v. ovoideis, episporio tenui præditis, fuscis, 18-30  $\approx$  12-22.

*Hab.* in foliis et caulibus Euphorbiæ dulcis in Germania.

3. *Melampsora Apocyni* Tranzsch. Ured. sp. nov. p. 2. — Soris ure- 1063  
 dosporiferis hypophyllis, in greges parvos congestis, in macula flava insidentibus, aurantiacis, disciformibus; uredosporis subglobosis v. ovoideis, 22-24  $\mu$ . diam. v. 26  $\approx$  20, episporio hyalino aculeolato, plasmate aurantiaco, paraphysibus numerosis apice capitato-inflatis immixtis.

*Hab.* in foliis Apocyni veneti var. sibirici in regione transcaspica, Turcmenia, prope Geok-Tepe (A. Antonow).

4. *Melampsora alpina* Juel. Cfr. Hedw. 1895 p. (17). 1064

*Hab.* in foliis Salicis herbacæ et S. polaris in Scandinavia.

5. *Melampsora ciliata* Barcl. Addit. Ured. 223, t. 5, f. 15. — Pustu- 1065  
 lis hypophyllis, minutis, discretis, copiosis, læte flavis; sporis ovoideis, eximie spinulosis, 21-30  $\approx$  20-22, stipitatis, paraphysibus capitatis; teleutosporis paliformibus 30-34  $\approx$  8-9, compactis, brunneis.

*Hab.* in foliis Populi ciliatæ pr. Simla Indiæ.

**Puccinia** Pers. — Syll. VII, p. 600, IX, p. 298.

1. **Puccinia Blyttiana** Lagerh. Mykol. Bidrag. VIII, p. 169. — Soris 1066  
hypophyllis v. amphigenis, parvis, in soros majores, rotundatos  
confluentibus, pulverulentis, fragmentis epidermidis laceratæ tectis,  
atrofuscis; teleutosporis forma et magnitudine varia, plerumque  
ovalibus v. oblongo-ovalibus, vix v. non constrictis, apice et basi  
subattenuatis v. rotundatis, membrana castanea, apice apiculata pal-  
lidiores, verrucis majoribus ornata, pedicello hyalino, fragili; sporis  
27-43  $\approx$  17-27.

*Hab.* in foliis Ranunculi auricomi in Norvegia.

2. **Puccinia areolata** Diet. Bot. Gaz. 1894, p. 304, tab. 29, f. 1. — 1067  
Soris æcidialibus et teleutosporeis hypophyllis in maculis pallidis;  
pseudoperidiis minute congregatis, albis, margine laceris; æcidio-  
sporis ovoideis, 25  $\approx$  21, verruculosi, hyalini; soris teleutosporeis  
sparsis atrobrunneis punctiformibus, mox nudis; teleutosporis variis  
ellipsoideis v. clavatis, hyalino-papillatis leniter constrictis, minu-  
tissime verrucosis, brunneis 50-80  $\approx$  21-34, decidue stipitatis.

*Hab.* in Caltha biflora, Skamania co. Amer. bor. (SUKSDORF).

3. **Puccinia Treleaseana** Pazschke Hedw. 1892, p. 317. — Soris 1068  
teleutosporarum hypophyllis v. petiolos occupantibus, sparsis, rotun-  
datis v. oblongis, circa 1 mm. diam., pulvinatis, brunneis, epider-  
mide fissa cinctis; teleutosporis oblongis v. ovoideis, 1-septatis, me-  
dio vix v. non constrictis, utrinque rotundatis, membrana crassiore,  
verrucosa, apice incrassata præditis, interdum obsolete apiculatis,  
fusco-brunneis, 35-40  $\approx$  20, stipite hyalino fragili, usque ad 100  $\mu$ .  
long. suffultis.

*Hab.* in foliis petiolisque Calthæ leptosepalæ, in Argenti-  
na, Am. bor.

4. **Puccinia Delphinii** Diet. et Holw. Hedw. 1893, p. 29. — Soris 1069  
teleutosporeis hypophyllis v. paucis epiphyllis v. petiolicolis, mi-  
nutis sed confluentibus, pulverulentis, atro-castaneis; teleutosporis  
late ellipsoideis, utrinque rotundatis, medio lenissime constrictis, pal-  
lide brunneis, exosporio tenui, irregulariter minuteque verrucoso,  
25-33  $\approx$  17-24; stipite brevi, caducissimo.

*Hab.* in foliis Delphinii sp., Kings River Canon Californiæ  
(E. W. D. HOLWAY).

5. **Puccinia neglecta** Magn. Berb. Ured. p. 324, t. XIX, fig. 13-19. 1070  
— Uredosporis e globoso-ellipsoideis, 28,4-33,5  $\approx$  26-31; teleuto-  
sporis utrinque rotundatis, crasse tunicatis, 34,8-49  $\approx$  26-32, non  
constrictis, crebre verruculosi.

*Hab.* in foliis Berberidis ex patria ignota. Specimina a cl.

A. MASSALONGO missa, in Museo botanico berolinensi servantur.

6. *Puccinia Meyeri-Alberti* Magn. Berb. Ured. p. 320, t. XIX, f. 24-37. 1071

— Soris paraphysibus pluriseriatis, 1-septatis, basi incurvatis, loculo supero minore, brunneo, apice valde incrassatis cinctis; teleutosporis valde elongatis, levibus non v. vix constrictis, longissime stipitatis, levibus,  $68,4-99,3 \approx 10,3-15,5$ , stipite  $110-200 \mu$ . long., apice acuminato-productis; æcidiis minutis, gregariis, hypophyllis, parum prominulis; æcidiosporis ovoideis, apice longe acuminatis,  $38-40 \approx 24$ .

*Hab.* in Berberide in montibus Chili (ALBERT MEYER).

7. *Puccinia heterogenea* Lagerh. Journ. of Myc. 1891, p. 47, t. X, 1072

f. 6-21. — Maculis epiphyllis, rotundatis v. rotundato-angulatis, medio purpureis, lutescenti-marginatis, concavis; soris teleutosporiferis hypophyllis v. cauliculis, pulvinatis, prominulis, gregariis, castaneis, mox nudis; teleutosporis continuis v. 1-septatis, ovoideis, oblongis v. ellipsoideis, apice basique rotundatis v. parum attenuatis, episporio levi, luteolo, apice paullulum v. non incrassato,  $30-60 \approx 20-30$ ; pedicello persistenti, teleutosporam 3-4 plo superante.

*Hab.* in foliis caulibusque vivis Althææ roseæ, Malvæ crispæ, M. peruvianæ, M. nicæensis in Æquatoria Amer. austr.

8. *Puccinia Pazschkei* Diet. Hedw. 1891, p. 103. — Acervulis in fo- 1073

liorum pagina superiore, rarioribus et minoribus etiam in pagina inferiore, mediocribus, ellipticis v. circularibus, epidermide vesiculosa cinctis; teleutosporis oblongis, medio constrictis, utrinque rotundatis, raro basi cuneatis, vertice non v. parum incrassatis, brunneis, membrana (in sicco) irregulariter verrucosa, præditis; pedicello brevi fragili suffultis.  $28-36 \approx 16-20$ .

*Hab.* in foliis Saxifragæ elatioris in Tirolia.

9. *Puccinia Saxifragæ-micranthæ* Barcl. Addit. Ured. p. 218. — Soris 1074

hypophyllis, minutis, circularibus, brunneis; teleutosporis pallide brunneis, minute papillatis, leviter constrictis, forma variis,  $26-35 \approx 12-14$ .

*Hab.* in foliis Saxifragæ micranthæ pr. Simla Indiæ (LACE). 1075

10. *Puccinia Levellei* Mont. Fl. Chil. VIII, p. 41; *P. Leveilleana*

De Toni Syll. VII, p. 696. — A *P. Geranii* Corda Ic. fung. IV, p. 12, t. 4, f. 36, teleutosporis globulosis v. subglobulosis, episporio æqualiter incrassato, punctato-verrucoso,  $40-48 \approx 20$  et pedicello brevi facileque caduco, distinctissima.

*Hab.* ad folia Geranii, in Chili, Amer. austr.

11. **Puccinia Mesembryanthemi** Mac Owan, Grev. XX, pag. 109. — 1076

Acerculis æcidineis plerumque cauliculis, sparsis, caulem sæpe cingentibus, aurantiacis, subiculo vix incrassato; pseudoperidiis confertis, cylindricis, circa 4 mm. longis, ore tenui lacero; æcidiosporis globosis vel subangulatis, diam. circa 25-27  $\mu$ . dilute flavis, episporio lævi; pulvinulis teleutosporeis cauliculis foliiculisve, sparsis, paucis, primo sub epidermide arescenti tectis, tum hiantibus, lanceolatis, 10 mm. longis, fusco-atris, nitidis dein erumpentibus, amorphis; teleutosporis ellipticis, medio vix constrictis, longe pedicellatis, circ. 50  $\approx$  25, pedicello hyalino, fragili, 50-60  $\mu$ . longo, sursum incrassato, episporio levi apicem versus crassiore.

*Hab.* in caulibus foliisque vivis Mesembryanthemi micranthi in Capite Bonæ Spei Africae australis.

12. **Puccinia microica** Ell. Descr. new spec. Fun. in Journ. of Mycol. 1077

1893, p. 274. — Æcidii hypophyllis, in maculis subincrassatis, suborbicularibus, 1,5-2 mm. diam. confertis, primo papilliformibus et clausis, dein apertis, cyathiformibus,  $\frac{1}{4}$  mm. diam. margine angusto, granulato-stellato, evanescenti cinctis; æcidiosporis aurantiacis, subglobosis, 15-22  $\mu$ . diam. v. plus minus irregularibus; uredosporis in teleutosporarum soris ipsis, non copiosis, subglobosis, pallidis, vix aculeolatis, 18-22  $\mu$ . diam.; soris teleutosporiferis minutis, sphaeriiformibus æcidii immixtis, circ.  $\frac{1}{4}$  diam., primo epidermide tectis dein supra denudatis et atro-brunneis; teleutosporis sæpius biconicis, vix constrictis, pallide brunneis, apice papilla centrali v. obliqua præditis, episporio levi, 25-45  $\approx$  14-20, pedicellis brevibus.

*Hab.* in Sanicula? Garrett Park Amer. bor. (E. A. Southworth).

13. **Puccinia Cymopteri** Diet. Bot. Gaz. 1893, p. 255. — Soris teleu- 1078

tosporiferis, atris, valde pulverulentis, mox nudis, primo epidermide griseola tectis; teleutosporis ovoideis v. oblongis, subinde irregularibus, utrinque rotundatis, vix constrictis, leniter verrucosis saturate brunneis, 33-45  $\approx$  20-27; pedicello brevi, deciduo.

*Hab.* in Cymoptero terebinthino, Kings River Canon, Californiæ (Holway).

14. **Puccinia crassa** Barcl. Addit. Ured. p. 219, t. 5, f. 16. — Pu- 1079

stulis hypophyllis atro-brunneis; teleutosporis utrinque rotundatis, leviter constrictis, 41-50  $\approx$  22-24, depresso tuberculatis.

*Hab.* in foliis Pimpinellæ Griffithianæ Ziarat, Afghanistan (Lace).



15. **Puccinia pallida** Trac. Descr. new spec. Pucc. and Urom. Journ. 1080  
Mycol. 1893, VII, p. 281. — Soris hypophyllis, parvulis, atris, sparsis; teleutosporis dilute coloratis, clavatis, constrictis, apice valde incrassatis et rotundatis v. subinde acuminatis, 42-52  $\approx$  12-14, pedicello brevissimo, fere nullo.

*Hab.* in foliis Osmorrhizæ, Platteville Amer. bor.

16. **Puccinia rugulosa** Tranzschel, Ured. Ross. p. 1 (rossice), Hedw. 1081  
1893, p. 239.

*Hab.* in Peucedano ruthenico, in Russia. — Teleutosporæ 37-48  $\approx$  21-24. Cum *P. bullata* comparanda, a qua teleutosporis longitrorsum striatis differt.

17. **Puccinia munita** Ludw. Zeitschr. Pflanzenkr. 1892, p. 133. — 1082  
Soris teleutosporiferis hypophyllis, 100-200  $\mu$ . diam., pseudoperidio albo, e cylindrico cyathiformi cinetis, cinnamomeis; teleutosporis ellipsoideis v. obovatis, distincte constrictis, basi rotundatis, apice papillatis, 27-37  $\approx$  15-20, exosporio tenuissimo, pallide translucenti, brunneo, sub levi, loculo supero brevior latioreque; stipite tenui, deciduo.

*Hab.* in foliis Hydrocotyles hirtæ in Australia meridionali (F. G. O. TEPPER).

18. **Puccinia Toddaliæ** P. Henn. F. Afr. I, p. 370. — Soris hypophyllis, 1083  
subhemisphæricis, pulvinatis, durissimis, sparsis, rarius confluentibus, nudis, 1-3 mm. diam., maculis pallidis fere cretaceis margine crasso elevato; teleutosporis polymorphis, longe clavatis v. ellipticis, medio constrictis, læte brunneis, loculo superiore oblique triangulari, subgloboso v. ellipsoideo obtuso v. acuto, 15-34  $\approx$  11-20, loculo inferiore subgloboso v. subelliptico 15-30  $\approx$  11-20, episporio levi incrassato, atropurpureo; pedicello longiusculo, gracili, flavo v. flavo-brunneo 16-20  $\approx$  4-8.

*Hab.* ad folia Toddaliæ nobilis in Abyssinia.

19. **Puccinia Comandræ** Peck, Bull. Torr. Cl. 1884, p. 49. — Macu- 1084  
lis pallidis v. flavidis, sæpe confluentibus; soris teleutosporiferis copiosis, amphigenis, confertis v. sparsis, orbicularibus, atro-brunneis v. nigris; teleutosporis obovato-oblongis v. ellipsoideis, obtuse acuminatis, obtusis v. truncatis, 30-60  $\approx$  20-23; pedicello longo, hyalino.

*Hab.* in foliis, caule et fructibus Comandræ pallidæ, Washington Amer. bor.

20. **Puccinia caudata** Barel. Addit. Ured. 219, tab. 5, f. 17. — Soris 1085  
hypophyllis subcircinatis; teleutosporis subfusoides, pallide brun-

neis, constrictulis, apice incrassatis, longe stipitatis, 28-37  $\approx$  13-16.

*Hab.* in foliis *Stellariæ paniculatæ*, Narkanda pr. Simla Indiæ (WATT).

21. *Puccinia intermedia* Diet. Bot. Gaz. 1893, p. 254. — Maculis 1086  
nullis; soris uredo-et teleutosporiferis circularibus,  $\frac{1}{3}$ - $\frac{3}{4}$  mm. diam.,  
sparsis, subinde confluentibus, atro-brunneis; uredosporis late ovoi-  
deis v. subglobosis, minute echinatis, brunneis, 21-23  $\approx$  17-23; te-  
leutosporis oblongis, utrinque rotundatis, apice subinde in papillam  
hyalinam productis, distinctè constrictis, verruculosi, brunneis,  
32-40  $\approx$  17-23, pedicello deciduo.

*Hab.* in *Epilobio* sp., Kings River Canon Californiæ (HOLWAY).

22. *Puccinia Clarkiæ* Peck Bull. Torr. Cl. 1884, p. 49. — Soris ure- 1087  
dosporiferis minutis, orbicularibus, amphigenis, rubenti-brunneis;  
uredosporis subglobosis, 9-11  $\mu$ . diam.; soris teleutosporiferis mi-  
nutis, orbicularibus, sparsis, amphigenis, atro-brunneis; teleuto-  
poris obovatis v. oblongis, obtusis v. obtuse acuminatis, subcon-  
strictis, 35-50  $\approx$  23-25; pedicello spora subæquali v. brevior.

*Hab.* in foliis *Clarkiæ pulchellæ*, Washington Amer. bor.  
— Uredosporæ et teleutosporæ in eadem planta.

23. *Puccinia heteranthæ* E. et E. New West Amer. Fung. in Ery- 1088  
thea p. 204. — *Æcidii* copiosis, sæpius epiphyllis, 2-3 mm. diam.,  
margine albido, effuso, irregulariter lacero cinctis; *æcidiosporis* sub-  
globosis, levibus, aurantiacis, 18  $\mu$ . diam.; *spermogoniis* copiosis;  
soris uredosporiferis hypophyllis, sparsis, rotundatis, 0,5-1 mm.  
diam., epidermide lacera marginatis, cinnamomeis; uredosporis, sub-  
globosis, 16-22  $\mu$ . diam., vix echinulatis; soris teleutosporiferis  
præcedentibus similibus, tantum saturatoribus; teleutosporis ovoi-  
deis v. oblongo-ellipsoideis, levibus, leniter constrictis, utrinque  
rotundatis, 24-32  $\approx$  16-22, episporio apice modice incrassato et sæ-  
pius papillato.

*Hab.* in *Cenothera heterantha*, Basin, Montana Amer. bor.

24. *Puccinia columbiensis* E. et E. New sp. north Amer. Fung. in 1089  
Proceed. Acad. S. N. Philad. 1893, p. 153. — Soris teleutospori-  
feris amphigenis, maculis flavidis, subincrassatis insidentibus, mi-  
nutis, non ultra  $\frac{1}{4}$  mm. diam., fere nigris, erumpentibus, subcon-  
centrice dispositis et dense confertis, epidermide lacera albo-cin-  
ctis; teleutosporis clavatis, 40-50  $\approx$  18-20, ad septum constrictis,  
loculo supero latiore et saturatiore, infero attenuato et subhyalino,  
episporio levi, apice rotundato v. subacuto valde incrassato; pedi-  
cello sporis æquilongus v. sublongior.

*Hab.* in foliis *Oenotheræ biennis*, Banff, Columbia britannica Amer. bor.

25. **Puccinia Aschersoniana** P. Henn. F. *Æthiop.* I, p. 110 tab. V, 1090  
f. 9. — Soris amphigenis sparsis, punctiformibus, fusco-ochraceis, primo subepidermicis; uredosporis subglobosis v. ellipsoideis, læte brunneis, levibus v. subtiliter echinulatis 23-27  $\approx$  20-25; teleutosporis late ellipsoideis v. subglobosis, brunneis, levibus, medio vix constrictis 28-36  $\approx$  22-28, episporio apice non incrassato, 2-3  $\mu$ . cr.; pedicello hyalino, curvato 15-20  $\mu$ . long.

*Hab.* in foliis vivis *Crepidis Rupeellii*, in Arabia.

26. **Puccinia Prenanthis** Pers. — Syll. VII, p. 606. — var. **himalensis** 1091  
Barcl. On two aut. *Cæom.* p. 1. — *Æcidii* hypophyllis magnis; æcidiosporis globosis, ovoideis v. piriformibus, pallide flavido-brunneis, episporio dense tuberculato, 21  $\mu$ . diam. v. 23,5-28  $\approx$  20; spermogoniis numerosis, ostiolo paraphysato; uredosporis pallide brunneis, globosis, ovoideis v. piriformibus, minute denseque echinulatis, 21-26  $\approx$  18-21; teleutosporis brunneis, tuberculatis, 26-30  $\approx$  20-22, vix constrictis.

*Hab.* in *Prenanthe Brunoniana*, Simla Indiæ.

27. **Puccinia Balsamorhizæ** Peck Bull. Torr. Cl. 1884, p. 49. — 1092  
Soris teleutosporiferis amphigenis, sparsis, suborbicularibus, majusculis v. parvulis, nigris; teleutosporis oblongo-ellipsoideis, obtusis, vix constrictis 40-45  $\approx$  23-25, breviter pedicellatis.

*Hab.* in foliis *Balsamorhizæ sagittatæ* etc., Washington Amer. bor.

28. **Puccinia hyalomitra** Diet. et H. Bot. Gaz. 1894, p. 304. — Soris 1093  
hypophyllis oblongis brunneis; teleutosporis ellipsoideis, leniter constrictis apice obtuse hyalino-apiculatis, castaneis, loculo inferiore processu laterali hyalino aucto, 47-53  $\approx$  32-37; stipite hyalino. 100-120  $\mu$ . long.

*Hab.* in *Chrysopside villosa*, Helena Mont. Amer. bor. (KELSEY).

29. **Puccinia Lygodesmiæ** E. et E. New sp. north Amer. Fung. in 1094  
Proceed. Acad. N. S. Philad. 1893, p. 154. — Soris circ.  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., dense cæspitosis, sæpe epidermide dealbata tectis, demum nudis, atro-castaneis; teleutosporis oblongo-ellipsoideis, ad septum constrictis, sæpius utrinque rotundatis, episporio levi, apice incrassato et sæpe late et oblique papillatis, 35-45  $\approx$  20-23, pedicello persistenti, 100-120  $\mu$ . long.

*Hab.* in caulibus *Lygodesmiæ junceæ*, Cheyenne Wells, Colorado Amer. bor.

30. *Puccinia Gutierreziae* E. et E. New. sp. north Amer. Fung. in 1095

Proceed. Acad. S. N. Philad. 1893, p. 152. — Soris teleutosporiferis  $\frac{1}{2}$ –1 mm. diam., ardesiaco-brunneis, hemisphæricis, erumpentibus et mox nudis, confertis v. confluentibus; teleutosporis oblongis, pallescenti-brunneis, constrictis, loculo supero sæpius obtuse acuminato-angustato, infero basi rotundato, episporio levi, apice incrassato; pedicello valido, dilute colorato, 75–100  $\mu$ . long.

*Hab.* in foliis *Gutierreziae eutamiae*, Dig-way, Utah Amer. borealis.

31. *Puccinia Hemizoniae* Ell. et Tracy Journ. of Myc. 1891, p. 43. 1096

— *Amphigena*; maculis flavidis, majusculis; soris parvulis, sparsis v. subinde confluentibus, epidermide lacera cinctis; uredoporis e subgloboso ovoideis, lenissime echinulatis, crasse tunicatis, saturate coloratis, 16–20  $\approx$  24–30; teleutosporis obovatis, interdum 2-septatis, leniter constrictis, apice valde incrassatis, rotundatis v. obtuse acuminatis, episporio levi, 45–48,  $\approx$  22–24, loculo infero dilutius colorato, in stipitem hyalinum, spora duplo longiorem, flexuosum abeunt.

*Hab.* in foliis *Hemizoniae truncatæ*, Oregon Amer. bor.

32. *Puccinia cryptica* Cooke in Herb. Kew., Grev. vol. XX, p. 108. 1097

— Soris hypophyllis, sparsis, tomento denso tectis; teleutosporis lanceolatis 50–60  $\approx$  28–30, fuscis; episporio crasso, levi, ad apicem incrassatis et apiculatis, pedicellis longissimis 100  $\mu$ . hyalinis.

*Hab.* ad folia *Stobææ*, in Capite Bonæ-Spei.

33. *Puccinia Tranzschelii* Diet. in Hedw. 1891, p. 295. — Soris te- 1098

leutosporarum (quæ tantum notæ) maculis fere circularibus flavis usque ad 14 mm. magnis in pagina foliorum inferiore numerosis et dense gregariis insidentibus, rarius etiam e pagina superiore singulis erumpentibus, hemisphæricis, nudis, parvis, fuscis; teleutosporis flavo-brunneis 39–45  $\approx$  17–22, ellipsoideis, medio paullo v. non constrictis, apice et plerumque etiam ad septum papilla valida hyalina instructis, pedicello firmo spora longiore suffultis.

*Hab.* ad folia viva *Cacaliæ hastatæ* in Rossia.

34. *Puccinia Xeranthemi* Mori Enum. F. Mod. III, p. 136. — Teleu- 1099

tosporis in soros orbiculares hypophyllos, solitarios v. gregarios, 1–1,5 mm. diam., dispositis, levibus, oblongis, bicellularibus, medio parum constrictis, apice incrassatis, apiculatis, 45–65  $\approx$  15–18, pallide flavo-brunneis; pedicello persistenti hyalino.

*Hab.* in foliis et caulibus *Xeranthemi annui* in monte Paderno pr. Bononiam.

35. **Puccinia uralensis** Tranzsch. Ured. sp. nov. p. 2, Hedw. 1892, 1100 p. 296. — Soris hypophyllis, atris, compactis, in acervum rotundatum aggregatis et partim confluentibus, in macula pallida vel flava insidentibus; mesosporis obovatis v. ellipticis, apice truncatis vel rotundatis, castaneo-brunneis, 30-35  $\approx$  17-23, levibus; teleutosporis ellipticis v. clavatis, apice truncatis vel rotundatis rarius conoideo-attenuatis, deorsum subangustatis, ad septum leniter constrictis, 30-43  $\approx$  16-25, castaneo-brunneis, levibus; pedicello usque ad 45  $\mu$ , longo, persistenti.

*Hab.* in foliis *Senecionis nemorensis* in montibus Uralensibus bor. (KUSNEZOW). — A *P. conglomerata* diversissima.

36. **Puccinia tuberculans** E. et E. New sp. north Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 153. — Soris teleutosporiferis amphigenis, sparsis v. confluentibus, circ. 1 mm. diam., epidermide crassa, tuberculato-elevata et demum rupta tectis, atro-castaneis; teleutosporis ellipsoideis v. oblongo-ellipsoideis, 25-40  $\approx$  18-22, leniter constrictis, episporio levi, dilute castaneo-brunneo, apice incrassatis et sæpius subacute papillatis. 1101

*Hab.* in foliis *Aplopappi*, Muncy, Nevada Amer. bor.

37. **Puccinia Spilanthis** P. Henn. F. Brasil. pag. 14. — Soris teleutosporiferis, epiphyllis, innumeris, sparsis v. orbiculatim dispositis, punctiformibus, atro-brunneis; teleutosporis irregularibus, oblonge clavatis, leviter septo constrictis, fuscis, episporio supra incrassato, 50-70  $\approx$  15-20; pedicello fusco 10-17  $\mu$ . 1102

*Hab.* in foliis *Spilanthis Salzmanni* in Brasilia. — *P. Virgaureæ* (DC.) Lib. affinis; a *P. africana* Cooke satis diversa.

38. **Puccinia californica** Diet. Bot. Gaz. 1893, pag. 254. — Maculis nullis; soris amphigenis, rotundatis v. oblongis, circ. 1 mm. diam.; uredosporis globosis v. breviter ellipsoideis, atro-brunneis, dense minuteque echinulatis, 26-31  $\approx$  26; teleutosporis soros nigros efformantibus, utrinque rotundatis v. deorsum attenuatis, subconstrictis, castaneis, tuberculatis, 42-52  $\approx$  26-36; pedicello longo usque ad 125  $\mu$ ., hyalino, subdeciduo. 1103

*Hab.* in foliis *Cnici Breweri*, Kings River Canon, Californiæ (HOLWAY).

39. **Puccinia Solidaginis** Peck Bull. Tor. Cl. 1884, p. 49. — Maculis pallidis, dein brunneolis, subinde confluentibus; soris teleutosporiferis majusculis, prominentibus, amphigenis, sparsis v. gregariis, 1104

nigris; teleutosporis oblongis, constrictis, obtusis v. acuminatis, 40-50  $\approx$  23-28; pedicello hyalino, spora longiore.

*Hab.* in foliis *Solidaginis pumilæ*, Utah Amer. bor.

40. *Puccinia Bigeloviae* Ell. et Ev. N. Am. Fung. n. 2248.

1105

*Hab.* in foliis *Bigeloviae* spec. in Amer. bor. — Diagnosis desideratur.

41. *Puccinia Cucumeris* P. Henn. F. Afr. pag. 371, Sacc. F. Abys. 1106  
p. 3, fig. 1. — Spermogoniis et æcidiis amphigenis in maculis flavis; pseudoperidiis vix elevatis irregulariter erumpentibus, flavis, æcidiosporis subglobosis, ellipsoideis v. irregularibus, flavis 17-28  $\approx$  14-26, episporio hyalino levi 2  $\mu$ . cr.; teleutosporis subglobosis v. oblique ellipsoideis vix medio constrictis, fusco-purpureis 28-42  $\approx$  24-35, loculo superiore oblique hemisphærico obtuso, rarissime lateraliter apiculato 12-22  $\approx$  24-35, loculo inferiore subhemisphærico 10-20  $\approx$  24-35, episporio incrassato 2-3, levi, atropurpureo, pedicello hyalino sæpe flexuoso, 3-15  $\approx$  2-3.

*Hab.* ad folia *Cucumeris ficifolii* in Abyssinia.

42. *Puccinia macrocephala* Speg. Fl. Guar. nonnulli p. 19, n. 52. — 1107  
Æcidiis hypophyllis, minutis, albis, pseudoperidiis membranaceis albis; æcidiosporis ovatis, subhyalinis, verrucosis 25-30  $\approx$  20-28; teleutosporis in acervulis atris epiphyllis, congestis, subfusoido-ellipsoideis, vix constrictis, fuligineo-atris, 52-60  $\approx$  24-28; pedicello hyalino prælongo, 120  $\approx$  10.

*Hab.* ad folia viva *Convolvulacææ* spec. cujusdam in sylva Coaguazû Amer. austr.

43. *Puccinia Lagerheimiana* Dietel, Hedw. 1892, p. 288. — Fungus 1108  
in foliis caulibus, fructibus vesiculas v. tumores generans; soris sporiferis partes deformatas totas obtegentibus et e pagina superiore (convexa) et ex inferiore (concava) erumpentibus, pulveraceis, rufo-brunneis; teleutosporis (quæ tantum adhuc sunt inventæ), ellipsoideis, utrinque rotundatis rarius basi attenuatis, medio paulo constrictis, 1-septatis, membrana flavescenti-brunnea, verrucosa, æquali, apice non incrassata vestitis, in utroque loculo quatuor poros æquatoriales v. irregulariter dispositos gerentibus, 48-63  $\approx$  26-36; pedicello usque ad 125  $\mu$ . long., valde caduco.

*Hab.* in *Ægiphilæ* spec. in Brasilia. — Adsunt quoque teleutosporæ solitariae non septatae.

44. *Puccinia Douglasii* E. et E. New sp. north Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 152. — Soris teleutosporiferis, 1109  
minutis,  $\frac{1}{8}$ - $\frac{1}{7}$  mm., nudis, epidermide adnato-cinctis, pallidiuscule

castaneis, sæpius seriatis; teleutosporis oblongo-ellipsoideis, 25-55  $\approx$  12-15, castaneis, constrictis, apice rotundatis v. obtuse acuminatis, episporio levi, apice distincte incrassatis, apice papillatis v. epapillatis.

*Hab.* in foliis *Phlogis Douglasii*, Detroit, Utah Amer. bor.

45. *Puccinia rufescens* Diet. Bot. Gaz. 1893, p. 253. — Maculis nullis; æcidiiis amphigenis, solitariis v. gregariis; pseudoperidiis hemisphæricis, e cellulis oblongis, laxis compositis; æcidiosporis sæpius ovoideis v. obovatis, exosporio pallide brunneo, contextu rubro, minute verrucoso, 18-25  $\approx$  17  $\approx$  20; soris teleutosporiferis sæpe circa æcidia, rubido-brunneis, pulverulentis, epidermide elevata primo tectis, mox nudis, 1-6 mm.; teleutosporis utrinque rotundatis, distincte constrictis, episporio tuberculato non v. parum incrassato, 32-46  $\approx$  21-31; pedicellis deciduis valde deciduis, spora æquilongis.

*Hab.* in foliis bracteisque *Pedicularis semibarbatæ*, Kings River Canon Californiæ (HOLWAY).

46. *Puccinia Gymnandræ* Tranzsch. Ured. sp. nov. pag. 1. — Soris teleutosporiferis amphigenis, sparsis, epidermide rupta cinctis, rotundatis vel (ad nervum medium) ellipticis, pulveraceis, brunneis, in maculis parvis brunneolis insidentibus; teleutosporis ellipticis v. oblongo-ellipticis, ad septum constrictis, utrinque rotundatis, 30-38  $\approx$  13-18, episporio æquali vel vertice leniter conoideo-incrassato, brunneo, verrucis obtusis dense ornato, pedicello hyalino, deciduo.

*Hab.* in foliis *Gymnandræ Stelleri* in monte Jany-onterehtschahl, Ural. bor., in regione fruticum (N. KUSNEZOW).

47. *Puccinia xylariiformis* P. Henn. Hedw. 1893, pag. 62. — Soris amphigenis v. cauliculis, pulvinatis dense gregariis et confluentibus, folia et caules deformantibus, xylariiformibus, epidermide rupta cinctis, atris; teleutosporis plerumque oblongis v. clavatis, rarius oblique ovatis v. subglobosis, medio septatis, vix constrictis, levibus, apice rotundato-obtusis, flavo-fuscis v. fusco-brunneis 28-48  $\approx$  20-32; episporio 2-6  $\mu$ . cr. levi; pedicello gracili v. flexuoso, hyalino v. minute fuscidulo, usque ad 30  $\mu$ . long.

*Hab.* in foliis caulibusque *Scrophularinearum* spec. in Chili.

48. *Puccinia Polemonii* Diet. et Holw. Bot. Gaz. 1893, pag. 255. — Amphigena; soris teleutosporiferis sparsis,  $\frac{1}{2}$ -2  $\frac{1}{2}$  mm. diam.; teleutosporis levibus, 29-45  $\approx$  12-17, aliis præcipue centralibus episporio subhyalino apice incrassato, pedicello longo, firmo fuscoideis, directe germinantibus, parum constrictis, aliis flavido-brunneis,



apice papilla conica, hyalina præditis, pedicello deciduo, multo postea germinantibus, obovatis v. fusoides.

*Hab.* in foliis *Polemonii cærulei*, Kootenai county, Idaho Amer. bor. (J. H. SANDBERG).

49. *Puccinia Pithecoctenii* Pazschke in Hedw. 1891, p. 199. — Sine 1114  
maculis; soris hypophyllis, fuscis, pulveraceis, irregulariter dispositis; uredosporis pallidis, aculeatis, globosis v. piriformibus,  $20 \approx 18$ ; teleutosporis utrinque rectangularibus, uniseptatis, septo constrictis  $30-35 \approx 23-25,5$ ; stipite persistenti interdum laterali  $40 \approx 5$  suffultis; teleutosporis unicellularibus fuscis, globosis, aculeatis,  $20 \approx 13$ , intermixtis.

*Hab.* in foliis *Pithecoctenii* spec., in Brasilia.

50. *Puccinia excelsa* Barcl. Addit. Ured. pag. 216, tab. 5, f. 12. — 1115  
Pustulis crebris, hypophyllis, majusculis, rotundo-ovatis, nigricantibus, maculas flavidas in parte aversa gignentibus, teleutosporis atro-brunneis, irregularibus septo distincte constrictis, sursum tenuatis, mamillatis, levibus,  $28-40 \approx 14-18$ .

*Hab.* in foliis *Phlomidis lamifoliae* pr. Simla Indiæ. — Uredosporæ nullæ.

51. *Puccinia Festucae* Plowr. in Grev. Vol. 21, pag. 109, *Æcidium* 1116  
*Perichlymeni* Schum. Cfr. Syll. VII, p. 796. — Soris uredosporiferis in pustulas epiphyllas, oblongas læte flavas v. aurantiacas congestis; uredosporis subglobosis, echinulatis, contextu flavo,  $25-30 \mu$  diam.; soris teleutosporiferis hypophyllis, linearibus v. oblongis, atro-brunneis; sporis clavato-cylindraceis, constrictis, processibus 4-6 incurvis interdum bifidis apice coronatis, loculo infero cuneato, deorsum attenuato, subinde abortivo,  $40-60 \approx 15-23$ , stipite longiusculo, brunneo, persistenti,  $15-25 \approx 10-12$ .

*Hab.* æcidia in *Lonicera Periclymeno*, uredosporæ et teleutosporæ in *Festuca ovina* et *F. duriuscula* in Anglia.

52. *Puccinia Suksdorfii* E. et Ev. Journ. Myc. VII, p. 130. — Soris 1117  
parvulis, nigris, fere ab initio nudis, subconfluentibus, amphigenis, maculis in folii pagina opposita gignentibus; teleutosporis breviter ellipsoideis, utrinque obtusis lateque rotundatis, saturate brunneis, minute granulato-rugosis, ad septum constrictis,  $40-50 \approx 25-30$ , pedicellis vix spora ipsa longioribus suffultis.

*Hab.* in foliis *Troximi glauci*, Washington Amer. bor. (SUKS-DORF).

53. *Puccinia Lindaviana* P. Henn. Hedw. 1895, p. 12. — Maculis 1118  
fuscis; soris hypophyllis firmis, atro-fuscis; uredosporis  $20-24 \approx$

16-22 levibus brunneis; teleutosporis ovoideo-clavatis, 28-38  $\approx$  16-22 levibus, læte brunneis, constrictis; pedicello 90  $\approx$  3-5 hyalino.

*Hab.* in foliis Strichni Henningsii (ubi Doct. LINDAU detexit) ex capite Bonæ Spei (BACHMANN). — *P. Tectææ* affinis.

54. *Puccinia plagiopus* Mont. Cuba 204, t. 11, f. 1. — Teleutosporis 1119  
nigris, opacis, primitus flavidis, parum septo crasso obscuriore constrictis, ovatis, extremitatibus rotundatis, margine verrucosis 32-40  $\approx$  24, episporio crasso, pedicello albo, hyalino, elongato, sæpius lateraliter inserto; uredosporis pallide flavidis, translucidis, halone hyalino, undulato, latiusculo cinctis, tuberculosis, echinulatis, ovatis v. obovatis, 28-32  $\approx$  24-28.

*Hab.* ad folia Oleaceæ ejusdam, Cuba.

55. *Puccinia Kunzeana* P. Henn. Hedw. 1894, p. 230. — Soris dense 1120  
gregariis, hypophyllis, pulvinatis, minutis, fusco-brunneis v. atris; teleutosporis flavo-brunneis ex ovoideo oblongis 20-28  $\approx$  16-19, episporio 4-5  $\mu$  cr.; stipite 60  $\approx$  4-5, hyalino.

*Hab.* in foliis viventibus Asclepiadacææ ejusdam, Surinam (KEGEL).

56. *Puccinia Carissæ* Cooke et Masee in Grev. vol. 22, p. 37. — 1121  
Hypophylla; uredosporis non visis; soris teleutosporiferis, parvulis, in maculis orbicularibus annulatim gregariis, dein confluentibus, atro-brunneis; teleutosporis ellipsoideis, constrictis, utrinque rotundatis, levibus, brunneis, 20-22  $\approx$  16, breviter pedicellatis.

*Hab.* in foliis vivis Carissæ ovatæ, Brisbane Australiæ (BAYLEY).

57. *Puccinia subcollapsa* Ell. Descr. new spec. Fung. in Journ. of Mycol. 1893, p. 275. — Soris teleutosporiferis amphigenis et cauliculis, hemisphæricis, castaneis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., dense sparsis; teleutosporis ovoideis, ellipsoideis v. subglobosis, 18-22  $\approx$  12-5, medio leniter constrictis, pallide brunneis, episporio tenui, levi, apice et basi sæpe collabenti, pedicellis tenuibus, circ. 60-70  $\mu$  long., basi attenuatis et hyalinis, sursum dilute coloratis.

*Hab.* in foliis et caulibus Asclepiadacearum sp., Amér. austr. (THOMAS H. MORONG).

58. *Puccinia Euphorbiæ* P. Henn. F. Æthiop. 1, p. 109, tab. V, f. 8. 1123  
— Soris uredosporiferis, amphigenis, flavo-ochraceis dein tectis, sparsis, rotundatis, maculis pallidis; uredosporis ellipsoideis, globosis v. ovoideis, granulato-verrucosis, subhyalinis flavescensibus 18-24  $\approx$  18-22; soris teleutosporiferis amphigenis, rotundatis, pulverulentis, nigris; teleutosporis ellipsoideis v. ovoideis, apice papilloso,

apice papilla conica, hyalina præditis, pedicello deciduo, multo postea germinantibus, obovatis v. fusoides.

*Hab.* in foliis *Polemonii cærulei*, Kootenai county, Idaho Amer. bor. (J. H. SANDBERG).

49. **Puccinia Pithecoctenii** Pazschke in Hedw. 1891, p. 199. — Sine 1114  
 maculis; soris hypophyllis, fuscis, pulveraceis, irregulariter dispositis; uredosporis pallidis, aculeatis, globosis v. piriformibus,  $20 \approx 18$ ; teleutosporis utrinque rectangularibus, uniseptatis, septo constrictis  $30-35 \approx 23-25.5$ ; stipite persistenti interdum laterali  $40 \approx 5$  suffultis; teleutosporis unicellularibus fuscis, globosis, aculeatis,  $20 \approx 13$ , intermixtis.

*Hab.* in foliis *Pithecoctenii* spec., in Brasilia.

50. **Puccinia excelsa** Barcl. Addit. Ured. pag. 216, tab. 5, f. 12. — 1115  
 Pustulis crebris, hypophyllis, majusculis, rotundo-ovatis, nigricantibus, maculas flavidas in parte aversa gignentibus, teleutosporis atro-brunneis, irregularibus septo distincte constrictis, sursum tenuatis, mamillatis, levibus,  $28-40 \approx 14-18$

*Hab.* in foliis *Phlomidis lamifoliæ* pr. Simla Indiæ. — Uredosporæ nullæ.

51. **Puccinia Festucæ** Plowr. in Grev. Vol. 21, pag. 109, *Æcidium* 1116  
*Periclymeni* Schum. Cfr. Syll. VII, p. 796. — Soris uredosporiferis in pustulas epiphyllas, oblongas læte flavas v. aurantiacas congestis; uredosporis subglobosis, echinulatis, contextu flavo,  $25-30 \mu$  diam.; soris teleutosporiferis hypophyllis, linearibus v. oblongis, atro-brunneis; sporis clavato-cylindraceis, constrictis, processibus 4-6 incurvis interdum bifidis apice coronatis, loculo infero cuneato, deorsum attenuato, subinde abortivo,  $40-60 \approx 15-23$ , stipite longiusculo, brunneo, persistenti,  $15-25 \approx 10-12$ .

*Hab.* æcidia in *Lonicera Periclymeno*, uredosporæ et teleutosporæ in *Festuca ovina* et *F. duriuscula* in Anglia.

52. **Puccinia Suksdorfii** E. et Ev. Journ. Myc. VII, p. 130. — Soris 1117  
 parvulis, nigris, fere ab initio nudis, subconfluentibus, amphigenis, maculis in folii pagina opposita gignentibus; teleutosporis breviter ellipsoideis, utrinque obtusis lateque rotundatis, saturate brunneis, minute granulato-rugosis, ad septum constrictis,  $40-50 \approx 25-30$ , pedicellis vix spora ipsa longioribus suffultis.

*Hab.* in foliis *Troximi glauci*, Washington Amer. bor. (SUKS-DORF).

53. **Puccinia Lindaviana** P. Henn. Hedw. 1895, p. 12. — Maculis 1118  
 fuscis; soris hypophyllis firmis, atro-fuscis; uredosporis  $20-24 \approx$

16-22 levibus brunneis; teleutosporis ovoideo-clavatis, 28-38  $\approx$  16-22 levibus, laete brunneis, constrictis; pedicello 90  $\approx$  3-5 hyalino.

*Hab.* in foliis *Strichni Henningsii* (ubi Doct. LINDAU dedit) ex capite Bonae Spei (BACHMANN). — *P. Tectlea* affinis.

54. *Puccinia plagiopus* Mont. Cuba 204, t. 11, f. 1. — Teleutosporis 1119  
nigris, opacis, primitus flavidis, parum septo crasso obscuriore constrictis, ovatis, extremitatibus rotundatis, margine verrucosis 32-40  $\approx$  24, episporio crasso, pedicello albo, hyalino, elongato, saepius lateraliter inserto; uredosporis pallide flavidis, translucidis, halone hyalino, undulato, latiuscule cinctis, tuberculosis, echinulatis, ovatis v. obovatis, 28-32  $\approx$  24-28.

*Hab.* ad folia Oleaceae cujusdam, Cuba.

55. *Puccinia Kunzeana* P. Henn. Hedw. 1894, p. 230. — Soris dense 1120  
gregariis, hypophyllis, pulvinatis, minutis, fusco-brunneis v. atris; teleutosporis flavo-brunneis ex ovoideo oblongis 20-28  $\approx$  16-19, episporio 4-5  $\mu$  cr.; stipite 60  $\approx$  4-5, hyalino.

*Hab.* in foliis viventibus *Asclepiadaceae* cujusdam, Surinam (KEGEL).

56. *Puccinia Carissae* Cooke et Massee in Grev. vol. 22, p. 37. — 1121  
Hypophylla; uredosporis non visis; soris teleutosporiferis, parvulis, in maculis orbicularibus annulatim gregariis, dein confluentibus, atro-brunneis; teleutosporis ellipsoideis, constrictis, utrinque rotundatis, levibus, brunneis, 20-22  $\approx$  16, breviter pedicellatis.

*Hab.* in foliis vivis *Carissae ovatae*, Brisbane Australiae (BAYLEY).

57. *Puccinia subcollapsa* Ell. Descr. new spec. Fung. in Journ. of Mycol. 1122  
col. 1893, p. 275. — Soris teleutosporiferis amphigenis et cauliculis, hemisphaericis, castaneis,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., dense sparsis; teleutosporis ovoideis, ellipsoideis v. subglobosis, 18-22  $\approx$  12-5, medio leniter constrictis, pallide brunneis, episporio tenui, levi, apice et basi saepe collabenti, pedicellis tenuibus, circ. 60-70  $\mu$ : long., basi attenuatis et hyalinis, sursum dilute coloratis.

*Hab.* in foliis et caulibus *Asclepiadacearum* sp., Amer. austr. (THOMAS H. MORONG).

58. *Puccinia Euphorbiae* P. Henn. F. Æthiop. I, p. 109, tab. V, f. 8. 1123  
— Soris uredosporiferis, amphigenis, flavo-ochraceis dein tectis, sparsis, rotundatis, maculis pallidis; uredosporis ellipsoideis, globosis v. ovoideis, granulato-verrucosis, subhyalinis flavescensibus 18-24  $\approx$  18-22; soris teleutosporiferis amphigenis, rotundatis, pulverulentis, nigris; teleutosporis ellipsoideis v. ovoideis, apice papilloso,

rostrato, pallidiori, medio vix constrictis, dense granulato-verrucosis, atropurpureis, basi annulato-constrictis (*Dasyscyræ foveolata* (Schw.) B. et C. simili) 40-62  $\approx$  24-32; pedicello hyalino, clavato, basi discoideo-inflato usque ad 21  $\mu$ . cr. et 15-20  $\mu$ . long.

*Hab.* in foliis vivis Euphorbiæ erythrææ, in Abyssinia.

59. **Puccinia Ludwigii** Tepp. in Ludw. Bot. Centralb. 1890, n. 27. — 1124

Uredosporis globosis v. oblongo-rotundatis 23-25  $\approx$  18-23, subtiliter spinulosis v. pæne levibus, pallide luteo-fuscis; soris teleutosporiferis epi-hypophyllisque minutis, 0,2-0,5 mm. diam., circularibus per epidermidem fissam erumpentibus, atris; teleutosporis ovatis utrinque plus minus rotundatis, vertice quandoque parum apiculatis, breviter pedicellatis, medio constrictis, 33-45  $\approx$  20-23, verrucoso-striatis, atro-fuscis.

*Hab.* in foliis Rumicis Brownii ad Caromby Australiæ.

60. **Puccinia Kochiæ** Masee in Grev. vol. 22, p. 17. — Amphigena; 1125

soris discoideis, planis, compactissimis, nigro-brunneis, 1 mm. circ. diam., epidermide lacera cinctis; teleutosporis dense glomeratis, elliptoideo-oblongis, utrinque obtusissimis v. apice vix et sæpe oblique papillatis, omnino perfecte levibus, pallide umbrinis, 40-50  $\approx$  20-25, episporio 3  $\mu$ . cr.; pedicello hyalino, cylindraceo, 70  $\approx$  6.

*Hab.* in foliis Kochiæ sedifoliæ pr. Dainboola, Victoria Australiæ (F. READER). — *P. Alyxiæ* peraffinis.

61. **Puccinia consimilis** P. Henn. Hedw. 1895, p. 10. — Maculis fla- 1126

vis amphigenis; soris hypophyllis, subcircinatis, cinnamomeis 3-4 mm. diam.; uredosporis 18-26  $\approx$  15-24, levibus, castaneis; teleutosporis oblongis v. subclavatis, 30-42  $\approx$  15-23, constricto 1-septatis (rariss. biseptatis) e flavo brunneis apice rotundatis non incrassatis; pedicello 100  $\approx$  6-10 hyalino.

*Hab.* in foliis Polygoni cujusdam, Java (SOLMS-LAUBACH) et Hanoi, Tonkin (BALANSA).

61. **Puccinia Moreæ** Henn. Hedw. 1895, p. 12. — Maculis nullis; 1127

soris uredineis tectis flavidis; uredosporis 17-30  $\approx$  17-22, verruculosis, flavis; soris teleutosporeis punctiformibus v. elongatis; teleutosporis variis, sæpe clavato-elongatis, apice obtusatis, fuscis 30-60  $\approx$  10-22; pedicello 5-7  $\mu$ . long. hyalino.

*Hab.* in foliis Moreæ edulis ad Caput Bonæ Spei. — *P. Allii* affinis.

62. **Puccinia Holwayi** Dietel in Hedw. 1893, p. 29. — Soris elongatis, 1128

atro-brunneis, amphigenis, nudis v. epidermide lacera cinctis; teleutosporis late ovoideis, medio subconstrictis, utrinque rotunda-

tis, exosporio flavo-brunneo, verrucoso præditis, verrucis loculi superi majoribus, 29-40 = 22-29; stipite caduco, teleutosporis brevioribus.

*Hab.* ad folia Allii sp. Kings River Canon Californiæ.

63. **Puccinia Eremuri** W. Kom. in Jaczews. Fungi Rossicæ exs. n. 29. 1129

*Hab.* in Eremuro in Rossia. — Diagnosis desideratur.

64. **Puccinia ferruginea** Lévy. Bonit. p. 204, t. 140, f. 5. — Acervulis 1130  
hypophyllis, convexis, ferrugineis confertis, epidermide cinctis; teleutosporis (ex icone) oblongis, constricto-didymis, apice obtusis v. papillatis, ferrugineis; pedicellis duplo longioribus cylindraceis tegumento hyalino sursum crassiore obductis.

*Hab.* in foliis Smilacis in insula asiatica Macao. — « Videtur *Coleopucciniæ* species ».

65. **Puccinia Prainiana** Barcl. On two aut. Cæom. pag. 3. *Cæoma* 1131  
*Smilacis* Barclay. — Æcidiiis amphigenis, in maculis gregariis, minute papillatis, apice brunneolis, peridio non marginatis; æcidiosporis subovoideis, pallide flavis, episporio utrinque incrassato, grosse echinato, 36-52 = 16-28; spermogoniis amphigenis ore paraphysatis, 145-157  $\mu$ , lat.; soris uredosporiferis hypophyllis, maculis pallidis insidentibus, in anulum dispositis, minutissimis; uredosporis piriformibus v. ovoideis, pallide flavis, episporio echinato, clavato-paraphysatis 46-47 = 31-38; soris teleutosporiferis in greges 2-7 mm. dispositis, atro-brunneis; teleutosporis oblongis, pallide flavis, leviter constrictis, 50-70 = 15-16, episporio levi, longe pedicellatis.

*Hab.* in foliis Smilacis asperæ in Simla Indiæ. — « Comparanda cum præcedente ».

66. **Puccinia Burchardiæ** Sacc. Hedw. 1893, p. 57. Ludw. Rost und 1132  
Brandpilze Austral. in Zeitsch. f. Pflanzenkr. 1893, p. 137. — Soris amphigenis numerosis parvulis v. majoribus, erumpentibus, epidermidis cuticula arida basi cinctis sed non cuticula tectis nec paraphysibus circumdati, circularibus v. ellipticis nigris; teleutosporis clavatis, medio constrictis vertice incrassatis rotundatis et modo raro acutatis, loculo inferiori in pedicellum angustato, flavo-fusco loculo superiori elliptico v. rarius sphaerico spadiceo-fusco, apice incrassato, episporio levi 40-60 = 14-23, pedicello hyalino 30-60 = 5-6.

*Hab.* in foliis Burchardiæ umbellatæ, Australia merid. — A *Puccinia Melanarthecei* Pat. Syll. VII, pag. 429, cui affinis, differt soris amphigenis sat crebris, uredosporis præsentibus, sed raris, globulosis, levibus 24  $\mu$ . diam., dilute isabellinis, breve stipitatis.

67. *Puccinia Typhæ* Kalchbr. Bot. Zeit. 1864, p. 175. — Soris gre- 1133  
gariis v. sparsis, umbrinis, erumpentibus ut plurimum macula ta-  
bacina cinctis; teleutosporis uniseptatis, loculo supremo globoso,  
saturate fusco, inferiore obconico truncato dilutiori in pedicellum  
longum attenuato.

*Hab.* in scapis (non vero foliis) *Typhæ latifoliæ* in palu-  
dosis Hungariæ. — Auctor describit locellum infimum hyalinum  
(hinc spora trilocularis): an ex errore?, an vera *Puccinia*?

68. *Puccinia Vulpinoideæ* Diet. et H. Bot. Gaz. 1894, p. 304. — Soris 1134  
hypophyllis, minutis, elliptico-linearibus; uredosporis obovato-elli-  
psoideis, pallide brunneis, echinulatis; soris teleutosporis subcuta-  
neis demum erumpentibus, nigris, teleutosporis clavatis v. fusoi-  
deis, apice obtuso incrassatis pallide brunneis sursum saturatori-  
bus, levibus, septo constrictulis 40-65  $\approx$  14-19, pedicellis teleuto-  
spora dimidio longioribus.

*Hab.* in foliis *Caricis vulpinoideæ*, Lafayette Amer. bor.  
(BOLLEY).

69. *Puccinia firma* Dietel in Hedw. 1892. p. 216. — Acervulis uredo. 1135  
sporarum brunneis e pagina inferiore foliorum erumpentibus, cir-  
cularibus v. oblongis, minutis; uredosporis ovoideis, echinulatis  
25-30  $\approx$  18-22; soris teleutosporiferis, atris, pulvinatis, firmis cir-  
cularibus v. oblongis, interdum confluentibus; teleutosporis oblon-  
gis, medio constrictis, apice rotundatis v. obtuse conoideis, rarius  
truncatis, incrassatis, 6-12  $\mu$ , basi rotundatis v. attenuatis, brun-  
neis, 44-60  $\approx$  17-21; pedicello firmo 30-50  $\mu$ . long.

*Hab.* in foliis *Caricis firmæ* in Tirolia. — Status æcidiospo-  
rus est *Æcidium Bellidiastrum* Ung. in *Bellidiastro Michellii*,  
ibidem frequens.

70. *Puccinia ludibunda* E. et E. New sp. north Amer. Fung. in Pro- 1136  
ceed Acad. S. N. Philad. 1893, p. 153. — Soris epiphyllis, atro-  
castaneis v. fere nigris, mox nudis et prominulis, 1-3  $\approx$   $\frac{3}{4}$ -1  $\frac{1}{2}$  mm.;  
teleutosporis clavatis v. elevato-ellipsoideis, 40-55  $\approx$  12-16, constri-  
ctis, loculo supero saturate colorato et subellipsoideo, infero sæpius  
angustiore et pallidiore, episporio levi, apice distincte incrassato  
ibique regulariter rotundato, obtuse acuminato v. truncato et bre-  
viter 2-3-corniculato; pedicello hyalino, valido, spora subæquilongo.

*Hab.* in foliis *Caricis sparganioidis*, Rockport, Kansas  
Amer. bor.

71. *Puccinia uliginosa* Juel. Cfr. Hedw. 1895, p. (16).



*Hab.* in foliis *Caricis vulgaris*, in Scandinavia. — Status æcidiosporus est *Æcidium Parnassiae* Schlect.

72. *Puccinia borealis* Juel. Cfr. Hedw. 1895, p. (16).

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*Hab.* in foliis *Agrostidis borealis* ed *Anthoxanthi* in Scandinavia. — Status æcidiosporus est *Æc. Thalictri*.

73. *Puccinia plicata* W. Korn. in Jaczews. Fungi Rossiae exsicc. I, 1139 n. 33.

*Hab.* in . . . . . in Rossia.

74. *Puccinia Cyperi* Arthur Bot. Gaz. 1891, p. 226. — Soris in maculis brunneis effusis irregulariter sparsis, epidermide crassa diu tectis; uredosporis ellipsoideis v. e globoso obovatis, episporio tenui, echinulatis, 19-22 = 20-30; teleutosporis supra brunneis infra pallidis, elongato-oblongis, subconstrictis, apice valde incrassatis, obtuse et oblique acuminatis, episporio tenui, levi, 17-20 = 33-63; pedicello brevi tertia parte sporarum longitudine v. brevior, leniter colorato.

*Hab.* ad calamos et folia *Cyperi Schweinitzii* et *C. strigosi* in Amer. bor. — *P. oblectæ* et *P. Caricis* affinis.

75. *Puccinia cellulosa* Berk. et Curt. Grev. Vol. XX, p. 108, *Sphaeria canaliculata* Schwein. — Teleutosporis fusiformibus, arcte coherentibus, medio septatis, pallide fuscis 28-30 = 8, episporio ad apicem incrassato, pedicellis brevibus, persistentibus.

*Hab.* ad culmos *Cyperi* in Amer. boreali.

76. *Puccinia juncophila* Cooke et Massee in Grev. V. 22, p. 37. — Soris uredosporiferis ferrugineis, pulvereis, ellipsoideis v. confluentibus; uredosporis ovoideis, minute echinulatis, pallide brunneis, 16-18 = 12-14; teleutosporis uredosporis intermixtis, ellipsoideis, levibus, brunneis, leniter constrictis, episporio crasso, apice rotundato crassiore, 26-30 = 16, pedicello hyalino, longissimo suffultis.

*Hab.* in Junco, Oakleigh, Victoria Australiæ.

77. *Puccinia Eulaliæ* Barcl. Addit. Ured. p. 216. — Pustulis rufo-brunneis, linearibus plerumque hypophyllis; uredosporis ovato-piriformibus, pallide brunneis, spinulosis, 28-30 = 20-21; teleutosporis rufo-brunneis, loculo superiori rotundato, infero cuneato, levibus 34-38 = 18-20; paraphysibus copiosis, capitatis, rufo-brunneis, apice 16  $\mu$ . crass.

*Hab.* in foliis *Polliniæ* (*Eulaliæ*) japonicæ prope Simla Indiæ.

78. *Puccinia Chloridis* Speg. F. Guar. nonnulli pag. 17 n. 49 (1891). — Soris hypophyllis; uredosporis ovatis, minutissime asperulis, sub-

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hyalinis, 18-24  $\approx$  12-20 teleutosporis obscure cinnamomeis ellipsoideis, constrictulis, levibus non v. vix umbonatis, 24-28  $\approx$  18-20, 1-septatis, pedicello cylindraceo deorsum attenuato, antice chlorinulo, ceterum hyalino 50-100  $\approx$  5, suffultis.

*Hab.* ad folia viva Chloridis cujusdam, Paraguari, Amer. austr. — Species sequens homonyma verisimiliter est etiam eadem: *Puccinia Chloridis* Dietel Hedw. 1892, p. 290: soris amphigenis, sparsis, minutis, ellipticis vel circularibus; uredosporis ovoideis, 20  $\approx$  15, membrana flaccida echinulata præditis; teleutosporis formariis, breviter ellipticis v. oblongis, utrinque conoideo-attenuatis basi v. apice rotundatis, medio vix constrictis, membrana levi, 3  $\mu$ . cr., apice plerumque paulo incrassata instructis; sporis 27-43  $\approx$  18-22; pedicello firmo, supra infuscato 100  $\mu$ . ca. long. — In foliis Chloridis verticillatæ, Kansas, Amer. bor.

79. *Puccinia longicornis* Pat. et Har. Bull. Soc. Myc. 1891, p. 143. 1145

— Soris uredosporiferis, numerosis, sparsis, per epidermidem fissam erumpentibus, ochraceis, minutis, rotundatis; uredosporis globosis vel ovatis v. piriformibus, pedicellatis, echinulatis, melleis, episporio crasso 24-36  $\approx$  20-24, paraphysibus immixtis clavatis hyalinis; soris teleutosporiferis, sparsis, solidis, prominulis, rotundato-mammiformibus ad 1 mm. lat., ferrugineis; teleutosporis fusiformibus, ad septum leniter constrictis, dilute castaneis, appendicula obtusa, incrassata, hyalina, ad 30  $\mu$ . long., præditis, 80-120  $\approx$  14-20; pedicellis hyalinis, tenuibus, flexuosis, persistentibus, usque ad 200  $\mu$ .; soris utriusque forma hypophyllis.

*Hab.* ad folia Bambusæ in Japonia.

80. *Puccinia Schottmülleri* P. Henn. Hedw. 1893, p. 61, t. VII, f. 1. 1146

— Soris compactis, coriaceo-crustaceis, firmis, elevatis, rimosis, corticiiformibus 0,5-1 mm. cr., confluentibus, ad 10 cm. long. ad marginem liberis fere revolutis, subincrassatis, flavis v. alutaceis; uredosporis ellipsoideis, subglobosis v. ovoideis, apicibus rotundatis v. depressis, hyalino subflavescentibus, levibus, medio vix constrictis 24-35  $\approx$  21-28, episporio levi 2  $\mu$ . cr., pedicello filiformi, flexuoso, hyalino usque ad 350  $\mu$ . long., 2-2,5  $\mu$ . cr.

*Hab.* ad culmos vivos Bambusæ spec. in Japonia.

81. *Puccinia erythrænsis* Pazschke in Henn. F. Æthiop. p. 109. — 1147

Soris hypophyllis, linearibus v. ellipticis, diutius tectis, maculas ru-beas generantibus; uredosporis globosis v. oblongis pallide brun-neis, episporio aculeis sparsis circ. 1  $\mu$ . alt. et crass. ornato præ-ditis 24-35  $\approx$  24-28; teleutosporis oblongis, utrinque rotundatis, apice

interdum incrassatis, medio constrictis, levibus, brunneis 35-42  $\approx$  18-24; stipite hyalino persistente 40-80  $\mu$ . long. interdum laterali suffultis, paraphysibus clavatis, hyalinis usque ad 32  $\mu$ . long. et in superiore parte usque ad 17 cr. intermixtis.

*Hab.* in foliis vivis *Andropogonis spec.*, in Colonia *Erythræ Abyssiniæ*.

82. **Puccinia Agropyri** E. et Ev. Journ. Myc. VII, 1892, p. 131. — 1148

Soris uredosporiferis epiphyllis, angustis, oblongis v. linearibus, brevibus, cinnamomeis, leniter elevatis; uredosporis subglobosis, ovoideis v. ellipsoideis, pallidis, 20-25  $\approx$  18-22, episporio crassiusculo et levi, breviter stipitatis; soris teleutosporiferis hypophyllis, oblongis v. linearibus, brevibus, nigris epidermide colorata fere semper obtectis; teleutosporis cylindræo-clavatis, 60-75  $\approx$  20-25, modice constrictis, pallidis, truncatis, apice latioribus sed vix incrassatis, interdum oblique truncatis v. rotundatis aut etiam obtuse acuminatis, pedicello brevi suffultis.

*Hab.* in foliis *Agropyri glauci*, Montana Amer. bor.

83. **Puccinia montanensis** Ell. Descrip. new sp. Fung. Journ. of Myc. 1149

col. 1893, pag. 274. — Soris teleutosporiferis sæpius linearibus et usque 1 cm. v. ultra confluentibus, copiosissimis, hypophyllis, nigris, primo epidermide tectis, mox nudatis, non prominulis, sæpius paraphysatis; teleutosporis ovoideis v. ellipsoideis, 25-50  $\approx$  15-22, subsessilibus, ad septum leniter constrictis, apice rotundatis v. applanatis, valde incrassatis, non papillatis, saturatius coloratis.

*Hab.* in foliis *Elymi condensati*, Helena, Montana Amer. bor. (F. D. KELSEY).

84. **Puccinia Distichlydis** E. et E. New sp. north Amer. Fung. in 1150

Proceed. Acad. S. N. Philad. 1893, p. 152. — Soris teleutosporiferis 2-10  $\approx$  1-2 mm., erumpentibus, nudis, fere nigris; teleutosporis oblongis v. oblongo-ellipsoideis, 45-70  $\approx$  15-20, medio constrictis, pallide brunneis dein saturate castaneis, episporio levi, apice incrassatis et regulariter rotundatis v. acuminatis; pedicello 80-100  $\approx$  6-7, valido, persistente, flavido-hyalino.

*Hab.* in *Distichlyde maritima*, Helena Montana, Americæ borealis.

85. **Puccinia Redfieldiæ** Trac. Descr. new spec. Pucc. and Urom. Journ. 1151

Mycol. 1893, VII, 281. — Soris ovoideis, subinde lineari-confluentibus, nigris; teleutosporis atro-brunneis, late ellipsoideis v. ovoideis, constrictis, episporio levi, apice incrassato, 23-26  $\approx$  40-45; pedicello colorato, majusculo, spora duplo v. triplo longiore.

*Hab.* in foliis Redfieldiæ flexuosæ, Kansas Amer. bor.

(G. VASEY).

86. **Puccinia Bartholomewii** Dietel Hedw. 1892, p. 290. — *Amphigena* 1152  
*gena*; soris nudis, pulvinatis, ellipticis v. oblongis,  $\frac{1}{3}$ -2 mm. long.,  
interdum confluentibus; uredosporis globosis v. ovoideis, flavo-brun-  
neis, dense et breviter echinulatis 24  $\approx$  22; soris teleutosporiferis  
fusco-atris; teleutosporis utrinque rotundatis, medio vix constri-  
ctis, apice parum incrassatis, levibus, longe pedicellatis (ad 140  $\mu$ .),  
obscurae brunneis; sporis 32-40  $\approx$  20-24.

*Hab.* in foliis Boutelouæ oligostachyæ, Kansas Amer. bor.

87. **Puccinia Agrostidis** Plowr. in Grev. Vol. 21, p. 110, *Æcidium* 1153  
*Aquilegiæ* Pers. Cfr. Syll. VII, pag. 776. — Soris uredosporiferis  
laete aurantiacis, elongatis v. linearibus, maculis flavidis insidenti-  
bus, amphigenis, circ. 1 mm. long.; uredosporis globosis v. ovoi-  
deis, hyalinis, echinulatis, contentu aurantiaco, 20-25  $\mu$ . diam.; so-  
ris teleutosporiferis parvis, epidermide tectis, subinde elongatis,  
nunc annulatim dispositis, atro-brunneis; teleutosporis atro-brun-  
neis, levibus, cylindræis v. subclavatis, apice incrassato, truncato-  
rotundato, deorsum attenuatis, validiuscule constrictis, sessilibus 40-  
45  $\approx$  12-20.

*Hab.* æcidia in *Aquilegia vulgaris*, uredosporæ et teleuto-  
sporæ in *Agrostide alba* et *A. vulgaris* in Anglia.

88. **Puccinia Magelhænica** J. Peyr. in Magn. Die von Peyr. in Tirol. 1154  
gesamt. pag. 17. — Soris uredosporiferis amphigenis, parvis, ro-  
tundatis v. elongatis, subinde confluentibus, aureis, clavato-v. glo-  
boso-paraphysatis; uredosporis globosis v. ovoideis, 20,5-24,5  $\approx$   
16,5-19,5; soris teleutosporiferis minutis, nigris, epidermide diu  
tectis, lineari-paraphysatis; teleutosporis loculo supero depresso,  
episporio leniter incrassato.

*Hab.* æcidia (*Æcidium Magelhænicum* Berk.) in *Berberide*  
*vulgaris*, uredosporæ et teleutosporæ in *Arrhenatero elati-*  
*ore* in Tirolia.

89. **Puccinia Aristidæ** Trac. Descr. new spec. Pucc. and Urom. Journ. 1155  
Mycol. 1893, VII, 281. — Raro amphigena, sæpe in facie interiore  
foliorum vaginæ; soris ex ovato anguste ellipsoideis, subinde con-  
fluentibus, ex epidermide lacera prominentibus; uredosporis brun-  
neo-flavis, subglobosis v. ovoideis, episporio crasso, minute tuber-  
culato, 23-27  $\approx$  23-32; teleutosporis dilute brunneis, late ovoideis,  
leniter constrictis, episporio levi, apice incrassato, 25-28  $\approx$  40-45;  
pedicello dilute colorato, attenuato, spora circ. duplo longiore.

*Hab.* in foliis Aristidae pungentis, Turkestan.

90. *Puccinia Tepperi* Ludw. in Zeitschr. Pflanzenkr. 1892, pag. 132. 1156

— Uredosporis ellipsoideis v. piriformibus, verrucosis, pallidis, 27-30  $\approx$  20-23, paraphysatis; soris teleutosporiferis usque ad .3 cm. long., firmis, crasse pulvinatis, ellipsoideis, atro-brunneis; teleutosporis subcylindratis, basi rotundatis v. raro cuneatis, apice rotundatis v. subincrassatis, pallide flavido-brunneis v. luteolis, 45-65  $\approx$  20-23, episporio 2  $\mu$ . cr., pallide flavo-brunneo, levi, apice 5  $\mu$ . cr., contentu granuloso, valde constrictis; pedicello hyalino, 180-200  $\mu$ . long., basi 2-3  $\mu$ . cr., apice 7-8  $\mu$ . cr.

*Hab.* in Phragmite communi prope Grange in Australia meridionali (J. G. O. TEPPER)

91. *Puccinia torosa* Thüm. Myceth. Un. n. 1725, Diagn. Myceth. Univ. 1157

Cent. XVI-XVIII, p. 5, Zeitschr. Pflanzenkr. 1892, p. 131, 133.

— Soris epiphyllis maximis, sparsis, 3 cm. long., 1.5 cm. lat., subcutaneis dein liberis, crassis, induratis, spadiceo-atris; teleutosporis tereti-clavatis, apice subtruncatis, medio profunde constrictis, 53-56  $\approx$  22-24; pedicello subhyalino 55  $\approx$  6.

*Hab.* in foliis vaginisque Arundinis Donacis in promontorio Bonæ Spei Africæ australis. (MAC OWAN).

92. *Puccinia virgata* E. et E. New sp. north Amer. Fung. in Pro. 1158

ceed. Acad. S. N. Philad. 1893, p. 154. — Soris teleutosporiferis amphigenis sed in hypophyllo diffusioribus, linearibus, sæpe 1 cm. v. ultra long. erumpentibus et epidermide lacera lateraliter marginatis, atro-castaneis; teleutosporis sæpe cuneatis, clavatis v. oblongis, 40-70  $\approx$  18-22, loculo supero brevior, ellipsoideo v. subgloboso, atro, infero longiore, angustiore et dilutius colorato, apice rotundatis, obtusis v. subtruncatis et subinde subrugosis; episporio apice incrassato sed non papillato.

*Hab.* in foliis emortuis Panici virgati, Rockport, Kansas Amer. bor.

93. *Puccinia Digraphidis* Soppitt, Zeitschr. f. Pflanzenkr. 1892, p. 343, 1159

*Æcidium Convallariæ* Schum. Cfr. Syll. VII, p. 828. — Uredosporis rotundatis, 23-25  $\mu$ . diam., raro ellipsoideis; teleutosporis 32-52  $\approx$  15-22.

*Hab.* in Phalaride prope Bremen Germaniæ. — Status uredo-teleutosporus.

94. *Puccinia coronifera* Klebahn Zeitschrift. für Pflanzenkr. 1893, 1160

p. 135, t. III, f. 6-9. *P. coronata* Corda, Cfr. Syll. VII, p. 623 ex parte.

*Hab.* stat. teleut. in Lolio, Avena, Festuca, Holco. æcidia in Rhamno cathartica pr. Bremen. — Differt a *P. coronata* æcidiiis in Rhamno nec in Frangula; soris amplioribus, sæpe flexuosis, uredosporis paullo majoribus, h. e. 18-24  $\approx$  12-17: teleutosporæ non differunt.

95. *Puccinia Phlei-pratensis* Eriks. et Henn. in Zeitschr. für Paras. 1161  
1894, p. 140. — Acervulis elongatis, confluentibus, atro-brunneis, erumpentibus; teleutosporis fusoides-clavatis, medio leniter constrictis, rotundatis v. acutatis, castaneis 38-52  $\approx$  14-16; uredosporis oblongo-piriformibus, aculeolatis, flavidis, 18-27  $\approx$  15-19.

*Hab.* in foliis vaginisque *Phlei pratensis* in Dania et Suecia.

*Uredo* adest.

90. *Puccinia dispersa* Eriks. et Henn. in Zeitschr. für Parasitenk. 1162  
1894, p. 257. — Acervulis epidermide tectis, sparsis, brunneis; uredosporis globoso-ellipsoideis, aculeolatis, flavidis 19-29  $\mu$ . diam.; teleutosporis plerumque hypophyllis, paraphysatis, clavatis, asymmetricis, breve stipitatis 40-50  $\approx$  14-18.

*Hab.* in Gramineis cultis pr. Stockholm. — *Æcidium Anchusæ* est status æcidiosporus.

91. *Puccinia lateritia* Schwein. Journ. Acad. Scienc. 1853, p. 281 1163  
(Amer. bor.)
92. *Puccinia Lecokiæ* Kotschy in Ung. et Kotsch. Ins. Cypern. (in 1164  
*Lecokia* in Insula Cypro).
93. *Puccinia Solani* Schwein. Journ. Acad. Nat. Scienc. 1853, p. 281 1165  
(Amer. bor.)
94. *Puccinia Sydowiana* Zopf in Sydow Myc. march. n. 40 (Borussia?) 1166
95. *Puccinia Synedrellæ* Lager. in Sydow Ured. n. 373 (in *Syne-* 1167  
*drella* in *Æquatoria*).
96. *Puccinia Wrightii* Berk. et Curt. in U. S. Expl. Exped. (Am. bor.) 1168
97. *Puccinia compacta* Kunze in Weigelt Exs. Cfr. Grev. XX, p. 110 1169  
(Surinam).

**UROPYXIS** Schröt. — Syll. VII, p. 735.

1. *Uropyxis Steudneri* P. Magn. Berich. d. deut. bot. Gesellsch. 1892, 1170  
p. 193, *Diorchidium Steudneri* P. Magn. Zwei neue Ured. p. 1,  
t. V, f. 1-11. — Soris teleutosporiferis amphigenis, pulvinatis, non pulverulentis, atro-brunneis; teleutosporis late ellipsoideis, 44,4  $\approx$  36, episporio minute verrucoso, stipite prælongo sub spora eximie globoso-inflato.

*Hab.* in foliolis *Osmocarpi bibracteati* in Abys. (STEUDNER).

2. *Uropyxis Naumanniana* Magn. Berb. Ured. p. 320, t. XIX, f. 8-12. 1171  
— Soris punctiformibus, sparsis; teleutosporis oblongis,  $50,2 \approx 19,4$ , exosporio dense minute verrucoso; stipite valde inflato,  $90 \approx 20$ , apice constricto.

*Hab.* in Berberide buxifolia in insula Desolationis Amer. austr.

**DASYSPORA** B. et C. — Syll. <sup>IX</sup> ~~VI~~, p. 313.

1. *Dasyspora foveolata* B. et C., Syll. IX, p. 313, *Puccinia gregaria* 1172  
Kunze in sched. [in Herb. Brux.], *Puccinia Winteri* Pазschke Hedw. 1890, p. 157 (teste Magnus).

*Hab.* in foliis vivis *Xylopiæ* cujusdam in Brasilia; in foliis sempervirentibus plantæ incertæ gujanensis, Surinam, socio *Oidio parasitico* Kunze in sched. quod mihi videtur Erinei forma (WEGELT, 1827). — Teleutosporæ cinnamomæ,  $30-35 \approx 18-20$ , aciculis hyalinis,  $8-9 \approx 1$ , crebris eximie utrinque ornatae, breve decidue stipitatae.

**GYMNOSPORANGIUM** Hedw. — Syll. VII, p. 736, IX, p. 314.

1. *Gymnosporangium Nidus-avis* Thaxt. Bull. n. 107 Connect. Agr. 1173  
Stat. p. 6. — Spermogoniis subaurantiacis; æcidiiis hypophyllis v. sæpius petiolicolis v. fructicolis, dense congestis, brunneis, primo subulatis dein fimbriatis, peridiis e basi divisis, segmentis paullum divergentibus; æcidiosporis levibus, globosis v. irregulariter ex ovoideo oblongis, circ.  $25 \mu$ . diam.; soris teleutosporiferis primo pulvinatis, irregulariter globosis v. ovoideis, saturate rubro-brunneis demum indefinite expansis, aurantiacis; teleutosporis 1-septatis late irregulariterque ex ovoideo subellipsoideis v. fusoides, apice rotundatis v. subattenuatis,  $55 \approx 25$ ; pedicellis primo apice inflatis.

*Hab.* spermogonia et æcidia in *Amelanchiere canadensi*, teleutosporæ in *Junipero virginiana*, Connecticut Amer. bor.

**PUCINIOSIRA** Lagerh. Berichte D. B. G. 1891, p. 344 (Etym. *Puccinia* et *seira* catena). — Teleutosporæ transverse 1-septatae, catenulatae, pseudoperidio cinctae, omnino hyalinae, contentu subinde læte colorato. Æcidiosporæ et uredosporæ ignotae. Evolutio tremelloidea.

1. *Puccinosira Triumfettae* Lagerh. l. c. — Soris hypophyllis, erumpentibus, parvulis v. subelongatis; teleutosporis ovoideis v. subelongatis, medio constrictis, hyalinis, exosporio levi,  $21-30 \approx 12-16$ .

*Hab.* in foliis *Triumfettae* in republica Æquatoriae.



2. **Pucciniosira Solani** Lagerh. l. c. — Soris hypophyllis v. petioli- 1175  
colis dense gregariis, majusculis, rotundatis, aurantiacis; teleuto-  
sporis elongatis v. ovoideis, apice sæpe acuminatis, medio non con-  
strictis, exosporio levi, apice incrassato, contentu aurantiaco, 45-  
54  $\approx$  21-30.

*Hab.* in foliis Solani sp. in republica Æquatoriae.

**TRICHOPSORA** Lagerh. Ber. D. B. G. 1891, p. 347 (Etym. *thrix* pilus  
et *psora* ob formam cylindricam teleutosporarum). — Teleutosporæ  
calamiformes, inter se coalitæ, 1-septatæ, evolutione tenuiter 3-  
septatæ.

1. **Trichopsora Tournefortiæ** Lag. l. c. — Spermogoniis contentu ru- 1176  
bro; soris teleutosporiferis inordinatis; teleutosporis 84-105  $\approx$  12-15,  
exosporio hyalino, apice incrassato, contentu aurantiaco.

*Hab.* in foliis, caulibus et floribus Taurnefortiæ sp. in re-  
publica Equatoriae.

**CHRYSOPSORA** Lagerh. Berichte D. B. G. 1891, p. 345 (Etym. *chryso*  
aurum et *psora*). — Evolutio tremelloidea; teleutosporæ transverse  
1-septatæ, elongato-cylindrææ, quoque loculo (sæpius supero tan-  
tum) germinatione tenuiter 3-septato.

1. **Chrysopsora Gynoxidis** Lag. l. c. — Soris teleutosporiferis sæpius 1177  
hypophyllis v. petiolicolis, plus minus pulvinatis, læte miniatis, an-  
nulos clausos regulares sæpius efformantibus; spermogoniis minute  
gregariis, contra soros teleutosporiferos appositis; teleutosporis elon-  
gato-cylindræeis, 195-200  $\approx$  30-40, medio subconstrictis, exosporio  
levi, hyalino; pedicello persistenti, longo, gelatinoso.

*Hab.* in foliis Gynoxidis pulchellæ in republica Equatoriae.

**PHRAGMIDIUM** Link — Syll. VII, p. 742, IX, p. 315.

1. **Phragmidium circumvallatum** Magn. in Berichte der deutsch. bot. 1178  
Gesell., 1894, p. 84. — Soris teleutosporiferis hypophyllis, macu-  
liformibus, nigris, paraphysibus elongato-inflatis, circ. 100  $\mu$ . long.,  
1-seriatis cinctis; teleutosporis plerumque 4-5-septatis, raro 2-3-  
septatis v. continuis, loculis poris 3 germinativis præditis, loculo  
superio in apicem subulatum, hyalinum, 9-12  $\mu$ . producto, 68-79  $\approx$   
30, stipite crasso, truncato, deorsum verrucoso-incrassato, 66  $\mu$ .  
long. suffultis.

*Hab.* in foliis Gei heterocarpi prope Egon in Armenia  
turcica.

2. **Phragmidium Laceianum** Barcl. Addit. Ured. 220, t. 4, f. 3. — Pu- 1179  
stulis uredineis, hypophyllis, læte aurantiis, copiosis, discretis, sub-  
circularibus; uredosporis ovoideo-piriformibus, læte aurantiis, spi-  
nosis, 20-24  $\approx$  16-18; pustulis teleutosporeis nigricantibus, orbicu-  
laribus, hypophyllis; teleutosporis 5-locularibus, levibus, apice ro-  
tundatis, incrassatis, minute papillatis, 94-130  $\approx$  40-50.

*Hab.* in foliis *Potentillæ argrophyllæ* pr. Simla Indiæ  
(LACE).

3. **Phragmidium biloculare** Diet. et H. Bot. Gaz. 1894, p. 305. — Soris 1180  
hypophyllis et cauli-petiolicolis, uredineis aurantiacis, uredosporis  
ovoideis 22-30  $\approx$  15-23 laxè papillosis; soris teleutosporeis atro-  
brunneis; teleutosporis typice bilocularibus, rarius trilocularibus,  
ellipsoideis, utrinque rotundatis, flavo-brunneis, grosse tuberculatis  
(subinde sublevibus) 30-44  $\approx$  20-28; stipitibus hyalinis 60  $\mu$ . longis.

*Hab.* in *Potentilla gelida*, Skamania count. Amer. bor.  
(SUKSDORF).

4. **Phragmidium nepalense** Barcl. Addit. Ured. 220, t. 4, f. 2. — Pu- 1181  
stulis uredineis subcircularibus, aurantiis, hypophyllis; sporis glo-  
boso-ovoideis 22-28  $\approx$  17-22, levibus; soris teleutosporeis minoribus,  
nigricantibus; teleutosporis atro-brunneis, bi-quinque-locularibus  
plerumque 4-locularibus, minutissime papillatis, 60-68  $\approx$  24-26, longe  
stipitatis.

*Hab.* in foliis *Potentillæ nepalensis*, Mattiana pr. Simla  
Indiæ.

5. **Phragmidium octoloculare** Barcl. Addit. Ured. 221, t. 4, f. 1. — 1182  
Pustulis teleutosporeis hypophyllis, orbicularibus, atris; teleuto-  
sporis plerumque 8-locularibus, grosse tuberculatis, apice minute  
hyalino-papillatis, ad septa leviter constrictis, 94-130  $\approx$  23-25.

*Hab.* in foliis *Rubi rosæfolii* pr. Simla Indiæ.

6. **Phragmidium tuberculatum** Müll. Syll. Fung. VII, p. 747. — var. 1183  
**Rosæ-arvensis** Mass. Contrib. Flor. Veron. p. 137. — Soris teleu-  
tosporiferis epicaulinis, late subpulvinatis, primum epidermide bul-  
lata tectis dein rimose erumpentibus; teleutosporis cylindraceis,  
atro-fuscis, verrucosis, 3-5-septatis, apice rotundatis, mucronulo  
hyalino sæpe abrupte apiculatis, 40-82  $\approx$  28-32, stipite hyalino 100-  
120  $\mu$ . long. e medio ad basim clavato-incrassato (ubi 20-22  $\mu$ . cr.)

*Hab.* in ramulis pedunculisque *Rosæ arvensis* prope Tre-  
gnago, Italia boreal.

**XENODOCHUS** Schlecht. — Syll. VII, p. 750.

1. **Xenodochus Clarkianus** Barcl. Addit. Ured. 222, t. 4, f. 4 e 5. — 1184

Soris ædicialibus deformantibus, læte aurantiis; sporis oblongo-cuboideis dense verrucosis 26-31  $\approx$  22-26; soris teleutosporicis serius orientibus, nigricantibus, nudis; teleutosporis cylindraceis, 4-locularibus, loculis 16  $\approx$  3, pallide brunneis.

*Hab.* in foliis *Astilbis rivularis* in silva Cheog pr. Simla Indiæ (Doct. CLARK). — Teleutosporæ subinde longitrorsum divisæ, hinc species atypica.

**ROSTRUPIA** Lag. — Syll. IX, p. 316.

1. **Rostrupia Scleriæ** Pазschke Hedw. 1892, p. 96. — Soris uredo- 1185

sporiferis epiphyllis, sparsis, rotundatis, tectis, maculas fuscas indeterminatas generantibus; soris teleutosporiferis hypophyllis, sparsis, rotundis, longe v. semper tectis; uredosporis ovalibus, aculeis sparsis crassiusculis ornatis, pallide ochraceis 20-27  $\approx$  16-20; teleutosporis cylindraceis, biseptatis, rectis v. parum curvulis, ad septa parum constrictis, vertice non incrassatis, apiculatis, pallide fuscis 54-75  $\approx$  11-14, pedicello brevi brunneo suffultis.

*Hab.* ad folia viva *Scleriæ* spec. Itajahy, in Brasilia.

2. **Rostrupia Schweinfurthii** P. Henn. F. Afr. I, p. 371 (*Pucciniastrum*) 1186

*Puccinia Schweinfurthii* (Henn.) Magn. Ured. Col. Erit. p. 44, c. iconib. — Maculis flavis; soris teleutosporiferis rotundatis sæpissime in crustam confluentibus, hypophyllis, clavatis, fusco-brunneis v. fusco-olivaceis; teleutosporis 2-5-locularibus, irregularibus, polymorphis, constrictis, oblongo-clavatis v. fusiformibus, ochraceis 30-80  $\approx$  10-24; loculis clavatis, cuboideis v. breviter cylindraceis, diversa longitudine, loculo superiore obtuso v. apice 1-9 dentibus acutis, palmatis v. stellato-radiatis coronato, rarissime lateraliter 1-apiculato; loculo inferiore plerumque cuneato v. elongato-clavato, pallidiore sæpe hyalino; pedicello flavescenti, hyalino 2-11  $\approx$  2-5: episporio levi, 1-3  $\mu$ . cr. ochraceo.

*Hab.* ad folia *Rhamni Staddo* in Abyssinia.

**COLEOSPORIUM** Lévl. — Syll. VII, p. 751, IX, p. 317.

1. **Coleosporium Pini** Gall. Journ. of Myc. 1891, p. 44. — Amphi- 1187

genum; maculis flavis, 4-25 mm. v. ultra long.; soris rubido-aurantiacis, 1-5 mm. long. v. dum confluentibus usque ad 10 mm. v. ultra; teleutosporis irregulariter clavatis, levibus, 1-3-septatis, 70-125  $\approx$  18-25.

*Hab.* in foliis Pini inopis pr. Washington Amer. bor.

**CHRYSOMYXA** Ung. — Syll. VII, p. 759, IX, p. 317.

1. **Chrysomyxa Arctostaphyli** Diet. Bot. Gaz. 1894, p. 303. — Soris 1188  
hypophyllis, congregatis, depressis, forma irregularibus, 160-240  $\mu$ .  
crassis; sporis oblongis 18  $\mu$ . long.

*Hab.* in foliis, quæ brunneo maculantur, Arctostaphyli Uvæ-  
Ursi, Wisconsin Amer. bor. (Davis).

2. **Chrysomyxa Chiogenis** Diet. Bot. Gaz. 1894, p. 303. — Maculis 1189  
flavidis v. nullis; soris hypophyllis sparsis; soris uredineis melleis;  
uredosporis catenulatis, ovoideis, 22-29  $\approx$  15-21, subhyalinis, verru-  
cosis; soris teleutosporis aurantiacis, cereis, 95-120  $\mu$ . crass.; te-  
leutosporis 8-12  $\mu$ . diam.

*Hab.* in Chiogene serpyllifolia, Wisconsin Amer. bor.  
— *C. Pirolæ* affinis.

**TRIPHFRAGMIUM** Link — Syll. VII, p. 768, IX, p. 318.

1. **Triphragmium Cedrelæ** Hori in Yatabe Icon. fl. japon. I, 2, (1892) 1190  
p. 150, t. 38, f. B 1-4. — Soris uredosporiferis amphigenis, sparsis  
maculas rubras efficientibus, aurantiacis, pulverulentis; uredosporis  
globosis, 17-21  $\mu$ . diam., aurantiacis, granulosis, echinulatis; soris  
teleutosporiferis, amphigenis, sparsis, irregulariter gregariis, pulve-  
rulentis; atris; teleutosporis subglobosis, radiatim trilocularibus, ad  
septa constrictis, obscure brunneis, granuloso-farctis, 35-40  $\mu$ . diam.,  
primo hyalinis et guttulas brunneas foventibus, loculis binis supe-  
rioribus, episporio processibus semel vel bifurcis, brunneolis ad  
7  $\mu$ . longis exornato, pedicello hyalino, cylindraceo, incurvo, ru-  
gulo, 30-70  $\approx$  5-10.

*Hab.* in foliis vivis Cedrelæ sinensis in horto botanico  
Tokyo et ad Honjo Japoniæ (S. Hori). — E sectione *Hemitri-*  
*phragmii*.

**SPHÆROPHRAGMIUM** Magn. Ber. d. deut. bot. Gesell. 1891, p. 121,  
t. VI, f. 18-26 (Etym. *sphæra* et *phragma* septum). — Teleuto-  
sporæ 4-pluriloculari-clathratæ, ovato-sphæroideæ. Cetera *Tri-*  
*phragmii*.

1. **Sphærophragmium Acaciæ** (Cooke) Magn. l. c. *Triphragmium* 1191  
*Acaciæ* Cooke — Syll. VII, p. 769. — Teleutosporæ 6-9-cellulari-  
clathratæ, eximie glochidiato-spinosæ.
2. **Sphærophragmium Dalbergiæ** Dietel Hedw. 1893, p. 30. — Soris 1192

uredosporiferis hypophyllis, singulis macula flavida insidentibus, vix 200  $\mu$ . diam., basi folii parenchymate laxo immersis, initio epidermide tectis dein ea annulatim cincta; uredosporis ex ovoideo piriformibus, pallide brunneo-flavidis, exosporio tenui, breviter remoteque aculeato, poris 2 germinantibus prædito, obvolutis 23-35 (rarius ultra)  $\approx$  13-20, paraphysibus copiosis, pallide flavidis, sursum non incrassatis, medio transverse septatis, circ. 9  $\mu$ . cr.; soris teleutosporiferis magnitudine soros præcedentes non superantibus; teleutosporis 4-8-cellulari-muriformibus, subquadrangularibus, exosporio verrucis conicis tecto cinctis, 36-43  $\approx$  32-43, atro-brunneis, pedicello æquilongis.

*Hab.* in foliis Dalbergiæ armatæ ad Inanda, Natal Africae occid.

**RAVENELIA** Berk. — Syll. VII, p. 770, IX, p. 318. — Notas diagnosticas paucissimas retuli; exstat enim generis absoluta monographia, iconibus illustrata, cl. DIETELII in Hedw. 1894, quæ *necessario* comparanda est.

1. *Ravenelia appendiculata* Lagerh. et Diet. Hedw. 1894, p. 65, f. 18. 1193

*Hab.* in foliis Phyllanthi in Æquatoria. — Capitula 60-80  $\mu$ . diam., in diametro 4-5-spora; sporæ 18  $\mu$ . diam.

2. *Ravenelia pygmæa* Lagerh. et Diet. Hedw. 1894, p. 67, f. 19. 1194

*Hab.* in Phyllantho? pr. Guayaquil Æquatoriæ. — Capitula 3-8-spora, 32-55  $\mu$ . diam.; uredosporæ 22-29  $\approx$  16-20.

3. *Ravenelia texensis* Ell. et Gall. in Diet. Hedw. 1894, p. 63, f. 13. 1195

*Hab.* in Desmantho, Texas, Amer. bor. — Capitula 55-60  $\mu$ . diam., in diametro 5-6-spora.

4. *Ravenelia Lonchocarpi* Lagerh. et Diet. Hedw. 1894, p. 67, f. 17. 1196

*Hab.* in foliis vivis Lonchocarpi campestris in Brasilia. — Capitula 60-100  $\mu$ . diam.; sporæ in quoque diametro 4-5, castaneæ 20  $\mu$ . diam.

5. *Ravenelia Holwayi* Diet. Hedw. 1895, p. 61, f. 26. 1197

*Hab.* in Prosopide juliflora in California. — Capitula 75-105  $\mu$ . diam. in quoque diametro 5-6-spora.

6. *Ravenelia Entadæ* Lagerh. et Diet. Hedw. 1894, p. 62, f. 9. 1198

*Hab.* in Entada polystachya, Panama. — Capitula 100-130  $\mu$ . diam., in quoque diametro 7-9-spora.

7. *Ravenelia versatilis* (Peck) Diet. Hedw. 1894, p. 38 et 368, f. 11, 1199

*Uromyces* Peck — Syll. VII, p. 582.

*Hab.* in Acacia Greggii et forte etiam in A. micrantha

in California Mexico et Arizona. — Capitula castanea, 60-90  $\mu$ . diam., in diametro 5-7-spora; sporæ 14-19  $\mu$ . diam.

8. *Ravenelia Farlowiana* Diet. Hedw. 1894, p. 369.

1200

*Hab.* in foliis *Acaciæ anisophyllæ* et *A. crassifoliæ* in Mexico (PRINGLE). — Capitula castanea, subhemisphærica 85-105  $\mu$ . diam. ex 7-9 sporis in diametro formata; sporæ 10-16  $\mu$ . lat.

9. *Ravenelia decidua* (Peck) Holw., Diet. Hedw. 1894, p. 370, *Uromyces deciduus* Peck 45 Rep. p. 25 (status uredineus).

1201

*Hab.* in foliis *Prosopidis pubescentis* in Amer. bor. — Ab affini *R. Holwayi* uredosporis multo minoribus, 24-34 = 11-14, recedit.

- 10 *Ravenelia mexicana* Tranzschel et Dietel in Hedw. 1894, p. 370.

1202

*Hab.* in foliis *Calliandræ grandifloræ* in Mexico (PRINGLE). — A *R. echinata* et *R. Lagerheimiana* forma appendicularum, sporarum et numero (15-20) sporarum, ex quibus capitula conflata sunt, facile distinguenda species.

11. *Ravenelia Indigoferæ* Tranzschel et Dietel Hedw. 1894, p. 369.

1203

*Hab.* in foliis *Indigoferæ Palmeri* in Mexico (PRINGLE). — A *R. Tephrosiæ* capitulis sporarum minoribus et altius verruculosis distinguenda; sporæ in diam. 4-6, castaneæ, 21-27  $\mu$ . lat.

12. *Ravenelia Volkensii* P. Henn. in Diet. Hedw. 1894, p. 62, f. 28.

1204

*Hab.* in *Acaciæ* spec. in Usambara Africæ orient. — Capitula 45-75  $\mu$ . diam., ex 10-20 sporis constantia.

13. *Ravenelia inornata* Diet. Hedw. 1894, p. 61, f. 25.

1205

*Hab.* in *Acacia horrida* in capite Bonæ Spei. — Capitula 120-175  $\mu$ . diam. in quoque diametro 8-11-spora; *Æcidium inornatum* Kalchbr. Syll. VII, p. 787 est hujus status æcidiosporus.

14. *Ravenelia Mac-Owaniana* Pazschke in Diet. Hedw. 1894, p. 59, f. 4.

1206

*Hab.* in foliis *Acaciæ horridæ* in capite Bonæ Spei. — Capitula 60-120  $\mu$ . diam. in quoque diametro 4-7-spora. *Æcidium ornamentale* Kalchbr. forte status æcidiosporus.

15. *Ravenelia Albizziæ* Diet. in Hedwigiâ 1894, vol. 33, p. 23, f. 22.

1207

*R. minima* Sacc. Fung. Abyss. Penzig. p. 3, fig. 2, nec Cooke.

*Hab.* in foliis *Albizziæ* in Abyssinia (PENZIG). — Differt a *R. minima* Cooke capitulis teleutosporiferis 12-18-sporis, stipite composito.

16. *Ravenelia Woodii* Pazschke in Diet. Hedw. 1894, p. 48, fig. 20.

1208

*Hab.* in foliis *Leguminosæ* cujusdam in capite Bonæ Spei (WOOD). — Paraphyses apice 10-20  $\mu$ . cr.; capitula 115-140  $\mu$ . diam.; sporæ circ. 6 in quoque diametro, 17-30  $\mu$ . diam.

17. *Ravenelia Lagerheimiana* Diet. Hedw. 1894, p. 65, f. 15. 1209  
*Hab.* in foliis *Calliandræ* in *Æquatoria*. — Capitula 56-65  $\mu$ . diam. ex decem sporis composita.
18. *Ravenelia echinata* Lagerh. et Diet. Hedw. 1894, p. 65, f. 16. 1210  
*Hab.* in foliis *Calliandræ* in *Æquatoria*. — Capitula 60-70 = 55-62, plerumque 14-spore.
19. *Ravenelia microcystis* Pazschke Hedw. 1894, p. 65, fig. 8. — 1211  
 Soris subcuticularibus, epiphyllis, maculas rufo-fuscas generantibus; soris uredosporiferis parvis, in annulos concentricos dispositis, plus minusve confluentibus; uredosporis oblongis v. ovatis, aculeatis, flavo-brunneis 17-24 = 9-12; soris teleutosporiferis irregulariter dispersis, non concentrice dispositis, parvis, nigris; capitulis orbicularibus planiusculis, levibus, castaneis 8-10-spore, 58-123  $\mu$ . diam.; teleutosporis unicellularibus 5-6 angulatis, 12-14  $\mu$ . lat.; cystis (eodem numero quo sporæ) globosis, parvis; hyphis fulcipientibus in stipitem compositum non conjunctis.  
*Hab.* in foliis vivis *Cassiæ* in *Brasilia*.
20. *Ravenelia cassiæcola* Atkins, Bot. Gaz. 1891, p. 313, Diet. Hedw. 1212  
 1894, p. 60, fig. 23. — Caulicola v. hypophylla; soris ad folia rotundatis v. oblongis, 1 mm. long., ad caules oblongis, sæpe per cm. 1-10 v. ultra confluentibus; pseudo-peridio e cellulis arcte cohærentibus, angulosis, parvis, flavido-brunneis efformato; uredosporis hyalinis, sordide flavis v. fulvis, ovoideis v. rotundis, minute asperulatis, 9-13 = 12-16; teleutosporis e fulvo atro-brunneis, 30-100  $\mu$ ., e loculis 5-30, cuneatis, 18-23 = 20-30, extus spina brevi, hyalina sæpe præditis, efformatis.  
*Hab.* in *Cassia nycitante*, Anhurn, Alabama Amer. bor.

**ALVEOLARIA** Lagerh. Ber. D. B. G. 1891, p. 346 (Ety. ab *alveolo*).  
 — Teleutosporæ tantum notæ, discoideæ, e loculis numerosissimis, prismaticis, verticalibus, constitutæ. Evolutio tremelloidea.

1. *Alveolaria Cordiæ* Lag. l. c. — Soris hypophyllis v. petiolicolis, 1213  
 rotundis, sæpe annulos concentricos efformantibus v. elongatis, columnaribus; teleutosporis 120-150  $\mu$ . diam., 40-50  $\mu$ . alt., loculis 30-60, prismaticis, 15-24  $\mu$ . diam., exosporio levi et flavido, contentu hyalino.

*Hab.* in foliis *Cordiæ* sp. in republica *Æquatoria*.

2. *Alveolaria andina* Lagerh. Ber. D. B. G. 1891, p. 347. — Teleu- 1214  
 tospor 180-210  $\mu$ . diam., circ. 70  $\mu$ . alt., loculis valde numerosis, contentu læte aurantiaco.



*Hab.* in foliis *Cordiæ* sp. in republica *Æquatoris*.

**ÆCIDIDIUM** Pers. — Syll. VII, p. 774, IX, p. 319.

1. *Æcidium Englerianum* P. Henn. et Lind. F. *Æthiop.* I, p. 110, 1215  
*Lindau* Bemerk. *Æc.* Engler. p. 43, t. II. — *Æcidii* amphigenis  
 et cauliculis; pustulis magnis, duris, diverse efformatis, evolutis  
 globosis, lobato-racemosis v. cornuformibus usque ad 5 cm. diam.  
 ochraceis; pseudoperidiis primo obtectis dein apertis, discoideo-cu-  
 pulatis, margine crasso involuto, ochraceo-flavis, usque ad 1 mm.  
 diam.; æcidiosporis ellipsoideis, subglobosis v. ovoideis, polygoniis,  
 flavis 20-28 = 16-21.

*Hab.* in foliis vivis caulibusque *Clematidis* spec., in Abyssinia.

2. *Æcidium Solms-Laubachii* Boy. et Jacz. Mat. Mycol. Montpell. p. 23. 1216  
*Hab.* in Adonide æstivali, Saint-Martin-de-Londres pr.  
 Montpellier (SOLMS LAUBACH). — Sporæ 22,5 = 17,5.

3. *Æcidium orbiculare* Barcl. Addit. Ured. 227, t. 4, f. 6. — Cauli- 1217  
 foliicolum, hypertrophias majusculas gignens; pseudoperidiis ela-  
 tis cylindraceis, ore minute serrato 0,7 mm. long.; æcidiospo-  
 ris aurantiacis verrucosis, globoso-ovoides v. angulosis, 19-25 =  
 14-20.

*Hab.* in Clematide grata, C. orientali, C. puberula  
 pr. Simla Indiæ (LACK et WATT).

4. *Æcidium circinans* Erikss. in Bot. Centralbl. 1891, n. 36, p. 297. — 1218  
 Maculis parvis, orbiculatis, per totam folii superficiem sparsis, su-  
 perne luteis et centro spermogoniferis, inferne æcidiferis; pseudo-  
 peridiis 10-30 circinatim dispositis, non confluentibus, poculifor-  
 mibus, longis, margine vix revoluta partitoque, albidis; æcidiosporis  
 pallidis 18-25  $\mu$ . diam.

*Hab.* in foliis *Aconiti Lycoctoni* in Scandinavia. — Hoc  
*Æcidium* videtur idem esse ac *Æcidium Aconiti-Napelli* (DC.)  
 in Rabenh. Winter Fung. Europ. n. 2627, teste ipso auctore.

5. *Æcidium Æthionematis* P. Magn. Beitr. Pilze Kleinasien p. 491, 1219  
 fig. 3-6. — *Æcidii* hypophyllis, sparsis v. dense gregariis, minu-  
 tis; æcidiosporis episporio levi, 16-17  $\mu$ . diam.

*Hab.* in foliis *Æthionematis Buxbaumii* pr. Amasia in  
 Asia Minore.

6. *Æcidium erectum* Dietel Hedw. 1892, p. 291. — Peridiis in utra- 1220  
 que pagina foliorum et in caulibus interdum paulo deformatis, ma-  
 culis sæpe purpureis insidentibus, densiuscule gregariis, cylindri-  
 cis, rectis, margine irregulariter denticulato v. integro; æcidiospo-

ris polyhedricis, aurantiacis, membrana achroa, subtilissime verrucosa præditis, 18-20 = 16-18.

*Hab.* in foliis et caulibus *Sedi reflexi*, pr. Bozen, in Tirolia.

7. *Æcidium Cunninghamianum* Barcl. Addit. Ured. 224, t. 4, f. 7. — 1221

Aceryulis epiphyllis; pseudoperidiis prælongis, cylindricis, 3-5 mm. long.; æcidiosporis globoso-ovoideis, obtuse verrucosis, 26-28 = 24-28; cellulis peridialibus elongatis, spinulosis 58-60 = 24-26.

*Hab.* in foliis *Cotoneastri bacillaris* pr. Simla Indiæ. — Status *Gymnosporangii*.

8. *Æcidium Rosæ-abyssinicæ* P. Henn. F. *Æthiop.* I, pag. 111. — 1222

Æcidiiis hypophyllis, singularibus, valde sparsis, rotundatis, usque ad 3 mm. diam.; maculis luteis violaceo-marginatis; pseudoperidiis confertis, pallide flavis, paraphysibus hyalinis usque ad 35  $\mu$ . long. non involutis; æcidiosporis subglobosis, ellipsoideis raro subclavatis, acutangulis, hyalino-flavescentibus, dense verrucosis, 15-35 = 18-24.

*Hab.* in foliis vivis *Rosæ abyssinicæ*, in Abyssiniâ.

9. *Æcidium Arunci* DC. Fl. Franc. 3 éd. II, p. 243. — Pseudoperi- 1223

diis gregariis, hypophyllis, macula sordide flava insidentibus, exiguis, primum mamillatis, obtuse conicis, demum cupulato-cylindraceis, ore recto v. vix reflexo, leniter vel non fimbriato, pallide luteis; æcidiosporis globosis vel rotundato-polygonis, episporio hyalino crassiusculo, dense et tenuiter muricato, plasmate luteolo granuloso, 20-24  $\mu$ . diam.

*Hab.* ad folia *Spirææ Arunci*, in Gallia.

10. *Æcidium Cytisi* Voss Mat. Pilz. Krain, V, p. 239. — Pseudope- 1224

ridiis gregariis, hypophyllis, plerumque in circulum dispositis, in macula lutea v. fusca, raro in petiolis et pagina superiore, ore albo dilacerato; æcidiosporis globosis v. polygonis, episporio levi, crasso, hyalino, nucleo luteo, 22-24  $\mu$ . diam. v. 31  $\mu$ . long.

*Hab.* ad folia *Cytisi hirsuti* in Carniolia.

11. *Æcidium Lupini* Peck 46 Rep. p. 33. — Maculis numerosis, par- 1225

vis, orbicularibus, primo flavido-viridibus, demum purpureo-brunneis; spermogoniis epiphyllis, centralibus; æcidiiis hypophyllis, confertis, brevibus; æcidiosporis globosis, verruculosis, aurantio-flavis, 25-40  $\mu$ . lat.

*Hab.* in foliis vivis *Lupini perennis*, Karner Amer. bor.

12. *Æcidium Cassiæ* Bres. Rev. Myc. 1891, p. 66. — Æcidiiis hy- 1226

pophyllis in greges suborbiculares collectis, 2-3 mm. diam.; pseudoperidiis dense gregariis, adpressis, cupulatis, margine subfim-

briato, pallide aurantiacis, intus flavidis; æcidiosporis flavidis; subgloboso-angulatis, 20-30  $\approx$  20-22.

*Hab.* ad folia Cassiæ occidentalis, in insul. S. Thomæ Africæ. — An *Æc. Cassiæ* Ell. et K. North Am. Fungi n. 1825 (in Amer. boreali) idem sit, nescio.

13. *Æcidium Talini* Speg. Fl. Guar. nonn. p. 24, n. 67. — Pseudo- 1227  
peridiis maculiculis, epiphyllis, dense aggregatis, minutis, orbiculatim dispositis, albo-cremeis; cellulis membranæ minute papillatis 20-25  $\approx$  10-15; æcidiosporis globosis vel obtuse angulosis, 16-17  $\mu$ . diam.

*Hab.* ad folia viva Talini patentis pr. Posta-cuè, Amer. austr.

14. *Æcidium Peyritschianum* P. Magn. Die von Peyr. in Tirol. ge- 1228  
samm. Pilze pag. 34. — Spermogoniis plus minus in macularum centro dispositis; æcidiis hypophyllis, dense gregariis, pseudoperidio subregulari.

*Hab.* in Oxalide corniculata pr. Bozen Tirolia.

15. *Æcidium xanthoxylinum* Speg. Fl. Guar. p. 24, n. 68. — Maculis 1229  
orbicularibus, amphigenis, rufescentibus. subdeterminatis, 5-6 mm. diam.; pseudoperidiis hypophyllis, concentrice denseque gregariis, minutis, flavescentibus, 250-300  $\mu$ . diam.; æcidiosporis subglobosis levibus 16-18  $\mu$ . diam.

*Hab.* ad folia viva Xanthoxyli cujusdam prope Paraguari Amer. austr.

16. *Æcidium Garckeanum* P. Henn. F. Afr. p. 372. — Maculis flavis 1230  
rotundatis; pseudoperidiis hypophyllis immersis in greges dispositis, albis, tenerrimis, cupulatis v. cupulato-cylindraceis, margine reflexo laciniatis; æcidiosporis subglobosis v. ellipsoideis, polyhedricis, hyalinis, granulatis 24-27  $\mu$ . diam., episporio hyalino 2  $\mu$ . cr.

*Hab.* ad folia Hibisci micranthi et H. crassinervii in Abyssinia.

17. *Æcidium Malvastri* Ell. et Trac. Journ. of Myc. 1891, p. 43. — 1231  
Hypophyllum; maculis dilute flavis; æcidiis gregariis, subcircinatis, brevibus, margine expanso angusto; æcidiosporis subglobosis v. ovoideis, episporio tenui, minute tuberculato, 15-18  $\approx$  18-22; spermogoniis ignotis.

*Hab.* in foliis Malvastri Munroani, Albuquerque, New Mexico Amer. bor. (TRACY).

18. *Æcidium Gauræ* E. et E. New West Amer. Fung. in Erythea 1232  
p. 205. — Maculis amphigenis, suborbicularibus, 3-8 mm. diam.,

supra rubido-purpureis, dein flavis et rubido-purpureo-cinctis; spermogoniis melleis v. flavis, prominentibus, maculas in epiphyllis occupantibus; æcidiis hypophyllis, innato-erumpentibus, confertis,  $\frac{1}{4}$ – $\frac{1}{2}$  mm. parvis, mox apertis et lacero-marginatis; æcidiosporis globosis, levibus, 14–17 diam., aurantiacis.

*Hab.* in foliis *Gauræ parvifloræ*, Fort Collins Amer. bor.

19. *Æcidium Ludwigæ* E. et E. New sp. north Amer. Fung. in Pro- 1233  
ceed. Acad. S. N. Philad. 1893, pag. 155. — Maculis amphigenis, supra purpurascentibus, subtus obscurioribus, sparsis v. subconfluentibus, 1–3 mm. diam.; æcidiis amphigenis, in hypophyllo copiosioribus, solitariis v. sæpius in tubercula 1–2 mm. diam. aggregatis, minutis,  $\frac{1}{4}$  mm. diam., margine sublacero-dentato, suberecto, cellulis subquadrangularibus v. pentagoniis, circ. 15  $\mu$ . diam., marginalibus 20  $\mu$ . diam.; æcidiosporis aurantiacis, subglobosis v. subangularibus, 12–15  $\mu$ . diam.

*Hab.* in foliis *Ludwigæ sphærocarpæ*, Ellendale, Sussex Amer. bor.

20. *Æcidium Cnotheræ* Mont. Fl. Chil. VIII, 37. — Pseudoperidiis 1234  
amphigenis, præcipue hypophyllis, cupulatis, parum præminentibus, margine recto v. vix reflexo, obscure et tenuissime simbriato, ochraceo-flavo; spermogoniis æcidiis mixtis; æcidiosporis rotundis, hyalinis, episporio tenui, plurinucleatis, levibus, 12–16  $\mu$ . diam.

*Hab.* ad folia *Cnotheræ tenellæ*, in Chili Amer. austr. — Cfr. Syll. VII, p. 789, ubi diagnosis e Montagnei Syll. deprompta satis differt a præsentē, quæ e Mont. Flora chilensi exit.

21. *Æcidium Aschersonianum* P. Henn. Malpighia 1891, pag. 89. — 1235  
Pseudoperidiis numerosis per totam superficiem foliorum sparsis, flavo-ochraceis, primo globosis dein hemisphærico-cupulatis, depressis, margine integro-inflexo; maculis nullis; æcidiosporis subgloboso-ellipticis v. polygoniis, pallidis v. flavescentibus, 20–26 = 18–24; episporio hyalino crasso, levi; spermogoniis epiphyllis, gregariis, rufescenti-brunneis.

*Hab.* in foliis *Kundmanniæ siculæ* in insula Malta.

22. *Æcidium Umbelliferarum* Boy. et Jacz. Mont. Myc. Montpell. p. 22. 1236  
— Maculis flavis oblongis; pseudoperidiis hinc inde aggregatis, margine lacero, albidis; æcidiosporis subglobosis, tenuiter verrucosis, flavo-aurantiis, crasse tunicatis, 25–27 = 22.5.

*Hab.* in foliis petiolisque *Anethi Fæniculi*, Grammont pr. Montpellier Galliæ.

23. *Æcidium Cissi* Wint. — Syll. VII, p. 314. — var. *physaroides* 1237

P. Henn. F. *Æthiop.* I, p. 111. — *Æcidii*s. *amphigenis* et *cauliculis*, sparsis, maculis atrosanguineis fuscescentibus usque ad 2 cm. diam.; pseudoperidiis sparsis, pulvinatis, elevatis, diutius clausis, rotundatis, aliis elongatis confluentibusque usque ad 1 mm. diam., atrofusci, cinereis, dein cupuliformibus, margine albo, membranaceo, laciniato, reflexo; *æcidiosporis* subglobosis v. ellipsoideis interdum angulatis, hyalinis, flavescentibus, minute granulatis, 8-12 = 7-9.

*Hab.* in foliis vivis caulibusque *Cissi* quadrangularis in Abyssinia.

24. *Æcidium Vangueriæ* Cooke — Syll. VII, p. 795. — var. *abyssinica* P. Henn. F. Afr. pag. 372. — Maculis nullis; pseudoperidiis hypophyllis, gregariis sparsis elevatis, non subimmersis, cupuliformibus, albidis intus flavis, margine reflexo, albido-lacerato; *æcidiosporis* angulatis, rotundatis, flavis, granulatis 14-17,5, peridio 1  $\mu$ . cr., hyalino.

*Hab.* ad folia *Vangueriæ* edulis in Abyssinia.

25. *Æcidium Vieillardii* Har. Bull. Soc. Myc. 1891, p. 149. — *Æcidii*s. 1239 *amphigenis*, præcipue hypophyllis, sparsis; pseudoperidiis secus orbem dispositis, minutis, vix prominulis, in macula brunnea areolata insidentibus, non v. vix confluentibus, ore recto crasso integro; *æcidiosporis* rotundato-angulatis, verrucosis, episporio flavidulo sat tenui, plasmate (in sicco) hyalino, punctulato, 12-16  $\mu$ . diam.

*Hab.* ad folia *Rubiaceæ* ejusdam, in Nova Caledonia.

26. *Æcidium columbiense* E. et E. New West Amer. Fung. in Eryth. 1240 pag. 206. — Hypophyllum æqualiter sparsum; *æcidii*s. expanso-apertis, 300-400  $\mu$ . diam., dentato-marginatis; spermogoniis inter *æcidia* sparsis; *æcidiosporis* aurantiacis, globosis, ellipsoideis v. subangulatis, levibus, 15-20  $\mu$ . long.

*Hab.* in foliis *Hieracii* sp., Columbia Britannica Amer. bor.

27. *Æcidium Conyzæ* P. Henn. F. *Æthiop.* I, p. 113. — *Æcidii*s. hy- 1241 pophyllis, sparsis v. gregariis, subflavis v. cinereis, maculis fuscis; pseudoperidiis cupuliformibus, pallidis dein fuscescentibus; *æcidiosporis* subglobosis v. ellipsoideis, acutangulis, verrucosis, subhyalinis, 20-28 = 18-22.

*Hab.* in foliis vivis *Conyzæ* *Dioscoridis*, in Abyssinia.

28. *Æcidium guttatum* Kunze in sched. [in Herb. Brux.] Sacc. Fung. 1242 herb. Brux. n. 4. — Maculis orbicularibus purpurascentibus, distinctis; pseudoperidiis subimmersis, circinatim congestis, hypogenis; *æcidiosporis* albidis polygonis, nucleatis, 9-10  $\mu$ . diam. levibus; cellulis peridialibus polygonis, asperulis, pallidis, 12-15  $\mu$ . diam.

*Hab.* in foliis plantæ Compositæ (?), Surinam. (WEIGELT).

29. *Æcidium flavescens* Barcl. Addit. Ured. 226, t. 4, f. 8. — Acer- 1243  
vulis hypophyllis, pallidis, maculas flavas in aversa pagina gignentibus; pseudoperidiis confertis, brevibus, margine stellatis; æcidiosporis globoso-ovoideis, pallide aurantiis, 20-22  $\approx$  14-16.

*Hab.* in foliis Senecionis rufinervis in silva Massobra pr. Simla Indiæ.

30. *Æcidium Trientalis* Tranzschel in Zeitschr. Pflanzenkr. 1892, 1244  
p. 103 et in Gobi Rostp. S. Petersb. 1891, p. 116. — Maculis nullis; æcidiis hypophyllis, irregulariter gregariis; pseudoperidiis breviter cylindræis, revolutis lacero-marginatis; æcidiosporis polygoniis, minute verrucosis, 17  $\mu$ . diam.

*Hab.* in Trientali europæa, Lewaschewo, prope Petersburg Rossicæ.

31. *Æcidium rhytismoideum* B. et Br. — Syll. VII, p. 807. — var. 1245  
*Mabæ* P. Henn. F. *Æthiop.* p. 111, t. V, f. 13. — Maculis orbicularibus, rhytismoideis usque ad 25 mm. diam., hypophyllis; pseudoperidiis e crusta nigra oriundis, plerumque orbiculariter dispositis vel sparsis, oblongis, graphidoideis v. punctiformibus, elevatis, primo nigris, crustaceis, dein longitudinaliter erumpentibus, margine membranaceo, latiusculo, albo, reflexo, e cellulis globoso-quadrangularibus, raro penta-v. hexagoniis, hyalinis, 12-20  $\approx$  12-15 formato; æcidiosporis subglobosis v. ellipsoideis plus minus angulatis, levibus, flavo-aurantiis v. hyalino-flavescentibus, 11-15  $\approx$  8-13.

*Hab.* in foliis vivis *Mabæ abyssinicæ*, in Abyssinia.

32. *Æcidium Oleæ* P. Henn. Hedw. 1893, p. 217. — Maculis sparsis, 1246  
incrassatis, fuscis, æcidiis hypophyllis, pseudoperidiis gregariis, brevibus, diutius clausis tuberculiformibus, dein apertis, subimmersis, cupuliformibus, fuscis; æcidiosporis ellipsoideis, ovoideis v. subglobosis, reticulato-verrucosis, hyalino-fuscescentibus, 20-28  $\approx$  13-17.

*Hab.* ad folia *Oleæ javanicæ*, in Java.

33. *Æcidium Ocimi* P. Henn. F. *Æthiop.* I, pag. 112. — Maculis ro- 1247  
tundatis v. nervos sequentibus, flavis v. fuscescentibus; æcidiis hypophyllis, sparsis, rotundatis; pseudoperidiis minutis, confertis, aureo-ochraceis, cupuliformibus, margine pallidiore, reflexo, cellulis contextu polygoniis, hyalinis, granulatis, 18-28  $\approx$  15-25; æcidiosporis subellipsoideis v. subglobosis e mutua pressione angulatis, levibus, aureo-ochraceis, 17-24  $\approx$  17-20.

*Hab.* in foliis vivis *Ocimi suavis*, in Abyssinia.

34. *Æcidium Dichondræ* Har. Bull. Soc. Myc. 1891, p. 149. — *Æci-* 1218  
diis amphigenis, non confluentibus, pseudoperidiis minutis, paullum  
præminentibus, flavidis, ore lacerato reflexo; æcidiosporis rotun-  
dato-polygonis, levibus, episporio hyalino, plasmate (in sicco) pal-  
lide luteo, 16-20  $\mu$ . diam.

*Hab.* ad folia *Dichondræ* cujusdam, in Chili.

35. *Æcidium Wittmackianum* P. Henn. F. *Æthiop.* I, p. 112. — Ma- 1249  
culis fuscis, æcidiis in foliorum, petiolorum bractearumque pagina  
inferiore; pseudoperidiis sparsis plerumque concentrice dispositis,  
cinereis, diutius tectis dein erumpentibus, cupuliformibus, contextu  
e cellulis triangularibus usque pentagonis, hyalinis, granulosis; æci-  
diosporis subglobosis v. angulatis, hyalinis, granulosis, 15-17  $\approx$  14-16.

*Hab.* in foliis vivis *Diclipteræ* maculatæ, in Abyssinia.

36. *Æcidium convolvulinum* Speg. Fl. Guar. nonn. p. 22, n. 64. — Hypo- 1250  
phyllum, in maculis deciduis gregarium, albido-flavescentibus; cellulis  
pseudoperidii obovatis, grosse rugoso-papillosis, 30-40  $\approx$  20-24; æci-  
diosporis subglobosis, levibus, subhyalinis, 18-22  $\approx$  18-20.

*Hab.* ad folia viva *Convolvuli* cujusdam pr. Posta-cué,  
Amer. austr.

37. *Æcidium Chelones* Girard Bull. Torr. Club. V, p. 40. 1251

*Hab.* in foliis *Chelones* glabræ Massachusetts Amer. bor.

38. *Æcidium Wilcoxianum* Thüm. Myc. Univ. 2226. 1252

*Hab.* in foliis *Phlogis* divaricatæ et *Phl. Douglasii*,  
Amer. bor.

39. *Æcidium Cordiæ* P. Henn. F. Portor. Sint. p. 491. — Maculis amphi- 1253  
genis, rotundatis, aurantiacis dein fuscis; æcidiis hypophyllis, sparsis,  
pseudoperidiis gregariis, concentrice dispositis, subimmersis, primo  
hemisphæricis, tectis, dein poculiformibus, flavis; æcidiosporis sub-  
globosis sæpe angulatis, hyalino-flavescentibus, granulosis 28-38  $\approx$   
28-35.

*Hab.* in foliis *Cordiæ* bullatæ, in insula S. Domingo.

40. *Æcidium oldenlandianum* Ell. et Trac. Journ. of Myc. 1891, p. 43. 1254  
— Hypophyllum; æcidiis in quoque grege paucis, 80-100  $\mu$ . long.,  
ore parce fisso nec recurvo; æcidiosporis globosis, nunc subangu-  
latis, episporio tenui, levi, læte flavo, 14-16  $\mu$ . diam.

*Hab.* in foliis *Houstoniæ* (*Oldenlandiæ*) cæruleæ, Starkville  
in Mississippi Amer. bor.

41. *Æcidium Stenhammariae* Rostr. Beiheft. Bot. Centr. 1893, p. 2. 1255

*Hab.* in *Stenhammaria* maritima, Jütland bor. — *Æcidio*  
*Pucciniæ Rubiginis* simillimum sed pseudoperidio minus evoluto.



42. *Æcidium Heliotropii* Boy. et Jacz. Mat. mycol. Montpell. p. 23. 1256  
*Hab.* in *Heliotropio europæo*, Montpellier. — *Æcidiosporæ* 27, 5 = 22,5.
43. *Æcidium Phaceliæ* Peck Bull. Torr. Bot. Cl. 1884, p. 50, Sacc. 1257  
*F.* herb. Bruxell. n. 3. — Maculis fulvo-ochraceis; pseudoperidiis hypophyllis, confertis, erumpentibus, breve poculiformibus, subintegris, sordide flavis, cellulis peridialibus rugulosis, 25-30  $\mu$ . d., æcidiosporis subglobosis, levioribus, 13  $\mu$ . d., pallide fusco-ochraceis.  
*Hab.* in foliis *Phaceliæ circinatæ* (ut videtur) Utah Amer. bor. (M. E. Jones).
44. *Æcidium Dietelianum* P. Henn. F. *Æthiop.* I, p. 112, t. V, f. 14. 1258  
 — *Æcidii* folia tota sæpeque ramulos et fructus occupantibus, aurantiacis; pseudoperidiis dense gregariis sed non confluentibus, cupulatis dein elongato-cylindræis, incarnato-aurantiacis, usque ad 2 mm. long., 1 mm. diam., margine vix laceratis nec reflexis, apice apertis, pseudoperidii cellulis ellipsoideo-polygoniis usque ad 35 = 25, hyalinis, granulatis, margine incrassatis; æcidiosporis ellipsoideis v. subglobosis, e mutua pressione sæpe angulatis, 15-26 = 15-20, læte aurantiacis, episporio subhyalino levi.  
*Hab.* in foliis, caulibus et fructibus *Withaniæ somniferæ*, in Abyssinia.
45. *Æcidium Solani-unguiculati* P. Henn. F. *Æthiop.* I, p. 112. — 1259  
 Maculis flavo-fuscescentibus; æcidiiis amphigenis, sparsis, pseudoperidiis gregariis, cupulatis, flavescentibus 0,2-0,3 mm. diam.; æcidiosporis subglobosis v. ellipsoideis, acutangulis, hyalinis flavescentibus 18-26 = 15-18.  
*Hab.* in foliis vivis *Solani unguiculati*, in Abyssinia.
46. *Æcidium Uleanum* Pazschke Hedw. 1892, p. 95. — *Æcidii* maculis rotundatis, usque ad 1 cm. lat., in pagina inferiore foliorum irregulariter dispersis, pallidioribus insidentibus, in pagina superiore maculas indeterminatas, læte purpureas, centro pallidiores, generantibus; pseudoperidiis congestis, in annulos concentricos dispositis cylindræis, 0,5 mm. alt. pallide flavis membrana tenui, margine irregulariter laciniato, in statu sicco fragilibus, e cellulis polyhedricis, 33-45 = 27-30, compositis; æcidiosporis ellipticis, pallidis, subtiliter punctatis, episporio paululum incrassato præditis, 27-35 = 25-32.  
*Hab.* in foliis *Solani spec.*, Tuberao in Brasilia.
47. *Æcidium ochraceum* Speg. Fl. Guar. nonnulli p. 25, n. 70. — 1261  
 Maculis amphigenis indeterminatis, pallescenti-ochraceis; pseudo-

peridiis hypophyllis dense circinatis, ochraceis; æcidiosporis globosis levibus, hyalinis, 20-24  $\approx$  20.

*Hab.* ad folia viva *Tabernæmontanæ* cujusdam pr. Paraguari, Amer. austr.

48. *Æcidium asclepiadinum* Speg. Fl. Guar. nonn. p. 26, n. 71. — 1262  
Pseudoperidiis totum hypophyllum, petiolos et caules obtegentibus, dense constipatis, majusculis, albidis; æcidiosporis ellipticis v. globosis, levibus, subhyalinis, 20-22  $\approx$  18-20.

*Hab.* ad folia, caules, inflorescentias *Morreniæ* cujusdam prop. Asuncion Amer. austr.

49. *Æcidium Mori* Barcl. Addit. Ured. 225, *Cœoma Mori* Barcl. olim. 1263  
— Acervulis aurantiis, amphigenis, pseudoperidiis obsoletis; æcidiosporis læte aurantiis, globoso-ovoideis, levibus, 14-17  $\approx$  14-16; cellulis peridialibus hexagonis spinuloso-tuberculatis, 22  $\approx$  18-19.

*Hab.* in foliis *Ficus palmatæ* (nec *Mori*) pr. Simla Indiæ.

50. *Æcidium pumillo* Kunze in sched. in Herb. Brux., Sacc. Fung. 1261  
herb. Brux. n. 5. — Maculis suborbiculatis, fuscescentibus; pseudoperidiis minutissimis in acervulos rotundos densissime congestis, brevibus, late hiantibus, hypogenis; æcidiosporis pallidis minutis, globoso-polygonis, 12-14  $\approx$  9-12, levibus; cellulis peridialibus globoso-angulosis, asperulis, 26-24  $\mu$ . diam. pallidis.

*Hab.* in foliis plantæ Gujan. e familia *Urticacearum* (nisi *Bailleriæ asperæ*, observante Reichenbach), Surinam (WEIGELT, 1827). Color acervorum senilium fuscus.

51. *Æcidium Litseæ* Pat. Champ. Asiat. p. 3. — Tuberculis hypophyllis, sparsis, globosis, lignosis 1-2 mm. lat., ex 6-10 verrucis conoideis, aggregatis, rufo-brunneis, compositis; pseudoperidiis tectis dein erumpentibus, vix exsertis, pallide fulvis, tenuibus, contextu parenchymatico e cellulis tabulari-polygoniis 20-30  $\approx$  25-35, crasse truncatis, levibus, hyalino-flavis, composito; æcidiosporis, elongato-angulosis, 60-70  $\approx$  15-20, granulosis, episporio crasso, hyalino

*Hab.* in foliis vivis *Litseæ* glaucæ in insula Nippon.

52. *Æcidium Lauterbachii* Henn. Fung. Nov. Guin. II, p. 23. — Maculis fuscis, orbicularibus, hypophyllis usque ad 1 cm. diam.; pseudoperidiis gregariis cupulato-applanatis, dein margine fimbriato, albis, contextu cellulis plerumque pentagonis, pallidis; æcidiosporis subglobosis, acutangulis, dense verrucosis, hyalinis, 25-35  $\approx$  20-28, episporio incrassato, verrucoso.

*Hab.* in foliis *Urticacearum* lignosarum Novæ Guinææ.

53. *Æcidium calyculatum* Speg. Fl. Guar. nonn. p. 25, n. 69. — Ma- 1267

culis irregularibus amphigenis indeterminatis fuscescentibus; pseudoperidiis hypophyllis laxè gregariis, longiusculè exsertis, calyciformibus, pallescenti-albis; æcidiosporis globosis, minutis, levibus, faretis 16-18  $\approx$  14-16.

*Hab.* ad folia arbusculæ cujusdam in silva pr. Caa-guazu, in America austr.

**RÆSTELIA** Reb. — Syll. VII, p. 833.

1. **Ræstelia Photiniæ** P. Henn. Hedw. 1894, p. 231. — Maculis rufo-brunneis v. atris, rotundatis; soris hypophyllis v. fruticulis, bullatis, duris; pseudoperidiis aggregatis, subcylindræis v. subcupulatis, margine involutis, subincrassatis, fusco-brunneis; æcidiosporis subglobosis, minute granulosis, fuscis, 18-24  $\approx$  16-22.

*Hab.* in foliis fructibusque *Photiniæ levis*, Yokohama Japoniæ.

**PERIDERMIIUM** Lév. — Syll. VII, p. 835, IX, p. 326.

1. **Peridermium Barteti** Vuill. Rech. sur les rouilles des pins, Nancy 1269 1894, p. 4.

*Hab.* in acubus *Pini montanæ* pr. Luchon Galliæ (BARTET).

— Sporæ inæquales 33-52  $\approx$  14-22.

**UREDO** Pers. — Syll. VII, p. 838, IX, p. 327.

1. **Uredo Derridis** P. Henn. Hedw. 1893, p. 217. — Soris amphigenis orbiculariter dispositis, pulvinatis, compactis, firmis, confluentibus, atro-fuscis; uredosporis ovoideis, ellipticis v. subglobosis, brunneo-fuscis 20-26  $\approx$  15-18; episporio incrassato, dense aculeato 3-5  $\mu$ . cr.

*Hab.* ad folia *Derridis bantamensis*, Java.

2. **Uredo pallidula** Cooke et Mass. in Grev. vol. 22, p. 37. — Soris pallidis, convexis, gregariis, irregulariter erumpentibus dein epidermide lacera cinctis, amphigenis; uredosporis subhyalinis, levibus, 12-14  $\approx$  8-10.

*Hab.* in foliis, ramis et leguminibus *Cassiæ*, Brisbane Australiæ (BAILEY).

3. **Uredo notabilis** Ludw. Centralbl. 1890, n. 27. — Soris epiphyllis, magnis, rufo-brunneis, in phyllodiis detortis et inflatis tubercula ca. 3 cm. diam. efficientibus; uredosporis ellipticis, rufo-brunneis 36-43  $\approx$  20-25; episporio 2,5-3  $\mu$ . cr. reticulato (areolis reticulipentagonalibus v. hexagonalibus medio mammillatis) pedicello ca. 46  $\mu$ . long., hyalino, superne interdum incrassato.

*Hab.* in phyllodiis *Acaciæ notabilis* in Australia merid.

4. **Uredo californica** E. et E. New West Amer. Fung. in Eryth. 1273

p. 205. — Soris plerumque hypophyllis, 0,5 mm. v. minus diam., mox nudis sæpe subconfluentibus, olivaceis, folii paginam expallentibus; uredosporis globosis v. ellipsoideis, subhyalinis, vix aculeolatis, 15-20 = 10-14.

*Hab.* in foliis *Viciæ giganteæ*, Mill Valley Californiæ.

5. *Uredo kansensis* Kell. et Sw. in Journ. of Myc. 1889, p. 77. — 1274

Maculis amphigenis, viridi-flavis dein pallide brunneis; soris præcipue hypophyllis, valde prominentibus, primo  $\frac{1}{4}$ - $\frac{3}{4}$  mm, dein ob confluentiam 1-3 mm. diam., fusco-viridulis, paraphysibus hyalinis, 50-90 = 13-20 (apice), copiosis cinctis; uredosporis subglobosis v. ellipsoideis, fuscidulis, sæpius eximie papillatis, 17-35 = 15-22; pedicellis hyalinis, densis, 30-50 = 5; spermogoniis amphigenis, in macularum centro, potius numerosis, atris, superficialibus, depressis, papillatis, 75-100  $\mu$ . diam.

*Hab.* in foliolis *Amorphæ fruticosæ*, Rooks county et Manhattan, Kansas Amer. bor.

6. *Uredo Vignæ* Bres. Rev. Myc. 1891, p. 66. — Soris minutis, pu- 1275

stuliformibus, hypophyllis, rarissimæ amphigenis, luride rufescentibus, in maculis concoloribus, suborbicularibus, dispositis, primo pseudoperidio diu persistenti tectis; uredosporis membrana achroa, laxè aculeolata præditis, subsphærico-angularis 22-24 = 18-20, v. obovato-elongatis 20 = 12, paraphysibus nullis.

*Hab.* ad folia *Vignæ luteæ*, in insul. S. Thomæ.

7. *Uredo Acænæ* Ellis North Amer. Fungi n. 3150.

1276

*Hab.* in foliis *Acænæ trifidæ*, Point Isabell, Alameda Co. California, Amer. bor.

8. *Uredo Zygothylli* P. Henn. F. Æthiop. I, p. 113. — Soris amphi- 1277

genis et cauliculis, gregariis, rotundatis, pulvinatis, compactiusculis, fuscis; uredosporis subglobosis, ellipsoideis raro ovoideis, levibus, ochraceis, brunneis v. subfuscis, 20-30 = 17-28; episporio valde incrassato, flavo.

*Hab.* in foliis caulibusque *Zygothylli decumbentis*, in Ægypto. — Ab *Uromycete vesiculoso* Wint. in *Zygoth. ammophilo*, uredosporis densissime verrucosis, episporio tenui differt.

9. *Uredo zygothyllina* Sacc. *Uredo Zygothylli* Jaczewski Bull. Soc. 1278

Myc. 1893, p. 47, t. III, f. IV. — Soris uredosporiferis in greges numerosos sparsis; uredosporis brunneis, globulosis, 35-37  $\mu$ . diam.; exosporio levi.

*Hab.* ad *Zygothyllum cornutum*, in Algeria. — Videtur diversa ab *U. Zygothylli* Henn.

10. **Cæoma Comandræ** Peck Bull. Torr. Cl. 1884, p. 50. — Maculis 1279  
pallidis, indefinitis; soris amphigenis, confertis, primo epidermide  
tectis; uredosporis subglobosis, ovatis v. ellipsoideis, aurantiacis,  
23-60  $\approx$  20-23.

*Hab.* in foliis Comandræ pallidæ, Utah Amer. bor.

11. **Uredo Erythroxyli** Graziani in Bull. Soc. Myc. 1891, p. 153. — 1280  
Soris umbrinis, hypophyllis, multis v. paucis, epidermide tectis dein  
erumpentibus, minutis, 200-700  $\mu$ . diam., sparsis, globosis v. con-  
fluentibus et tum irregularibus; maculis indeterminatis, plus mi-  
nus latis in pagina inferiore foliorum concoloribus, in pagina supe-  
riore fulvo-ferrugineis, contraposis; uredosporis ochraceo-umbri-  
nis, tenuiter echinatis, aliquando ellipsoideis, plerumque ovatis v.  
piriformibus, antice obtuse rotundatis, postice exalbescentibus, at-  
tenuatis truncatisque 25-30  $\times$  14-21; pedicello rarissimo, subnullo;  
protoplasmate hyalino, 1-guttato; poris germinativis 3-5  $\mu$ . diam.,  
uno v. duobus, sæpius a latere dispositis, præminentibus.

*Hab.* in foliis Erythroxyli Cocæ in Peruvia et Bolivia,  
Amer. austr.

12. **Uredo Frankenæ** Mont. Phyt. Canar. p. 90. — Pulvinulis teleu- 1281  
tosporiferis proeminentibus, atro-fuscis, teleutosporis, ellipticis, ob-  
longis v. subglobosis, utrinque rotundatis, apice incrassatis, levis-  
simis, vix v. non constrictis ad septa, 36-44  $\approx$  20-24; pedicello lon-  
giusculo, persistenti, hyalino, gracili, 70  $\mu$ .; uredosporis immixtis,  
episporio crassiusculo, globosis v. subglobosis, levibus 24-32  $\mu$ .

*Hab.* ad folia Frankenæ pulverulentæ, Canarie.

13. **Uredo Gossypii** Lagerh. Journ. of Myc. 1891, p. 48. — Maculis 1282  
parvis, purpureo-brunneis, sparsis v. confluentibus; soris præsertim  
hypophyllis, flavescentibus; sporis ovoideis v. piriformibus, 24-30  
 $\approx$  15-18, episporio æquali, pallide flavescenti, echinulato, contextu  
ochroo; paraphysibus clavatis immixtis.

*Hab.* in foliis Gossypii sp. in Æquatoria Amer. austr.

14. **Uredo Eriocomæ** Ell. Descr. new Spec. Fun. Journ. of Mycol. 1283  
1893, p. 275. — Soris hypophyllis, oblongis, 1-4 mm. long., pul-  
vinatis, mox nudis, atro-castaneis; uredosporis globosis, 20-25  $\mu$ .  
diam. v. ovoideis 22-30  $\approx$  20-25, primo hyalinis, mox castaneis, epi-  
sporio crasso, subæquali, breviter tuberculato-spinuloso, pedicello  
brevis, æquali, hyalino.

*Hab.* in foliis Eriocomæ cæspitosæ in deserto Mohave,  
Kern county Californiæ.

15. **Uredo Schweinfurthii** P. Henn. F. Æthiop. I, p. 113, t. V, f. 11. 1284

— Soris epiphyllis, singularibus, rotundatis, sæpius gregariis, confluentibus, primo pustulatis epidermide tectis, griseis, maculis flavo-brunneis dein erumpentibus, pulverulentis, fusco-ochraceis; uredosporis globosis v. ellipsoideis, ochraceis 28-35  $\approx$  24-33; episporio atrobrunneo, verrucoso-aculeato, 2-3  $\mu$ . cr.

*Hab.* in foliis vivis Cirsii spec. in Abyssinia.

16. **Uredo similis** Ell. Descrip. new Spec. Fung. in Journ. of Mycol. 1285 1893, p. 275. — Soris amphigenis, orbicularibus,  $\frac{1}{2}$  mm. diam., flavis dein pallide brunneis, sparsis, applanatis, sine macula; uredosporis obovatis, 22-35  $\approx$  15-20, sursum rotundatis, subincrassatis et aculeolatis, deorsum angustatis et levibus, hyalinis dein flavis; pedicellis brevissimis.

*Hab.* in foliis Sycii vulgaris, Brookfield Amer. bor. (E. M. FISHER).

17. **Uredo Ipomœæ** Barcl. Addit. Ured. 228. — Pustulis hypophyllis 1286 albicantibus, irregularibus; sporis rotundo-cuboideis, levibus 17-20  $\approx$  14-16.

*Hab.* in foliis Ipomœæ hederacææ, Sairi pr. Simla Indiæ (WATT). Dubia species ex ipso auctore.

18. **Uredo Jacquemontiae** Henn. Fung. Nov. Guin. II, p. 23. — Soris 1287 hypophyllis, sparsis, diutius tectis, deinde epidermide cinctis erumpentibus, pulverulentis, ochraceis, maculis flavis; sporis ellipsoideis, ovoideis v. subglobosis, ochraceis v. fusco-brunneis 30-38  $\approx$  27-35, episporio hyalino aculeato 5-7  $\mu$ . incrassato, aculeis hyalinis usque ad 1  $\mu$ . longis.

*Hab.* in foliis Jacquemontiae, Novæ Guineæ (L. KÄRNBACK).

19. **Uredo Ehretiae** Barcl. Addit. Ured. 228. — Acervulis foliicolis 1288 subcircularibus, 1-8 mm. diam. v. petiolicolis et foliicolis difformibus, hypertrophias generantibus, læte aurantiis; uredosporis ovoideis v. piriformibus, spinosis, apice incrassatis, 30-38  $\approx$  20-22.

*Hab.* in foliis petiolisque Ehretiae serratae pr. Chakrata, Simla Indiæ.

20. **Uredo Colebrookiae** Barcl. Addit. Ured. 227. — Pustulis copiosis- 1289 simis, aurantiis, hypophyllis, confluentibus; uredosporis pallide aurantiis, ovoideis, spinosis 20-28  $\approx$  17-20.

*Hab.* in foliis Colebrookiae oppositifoliae pr. Suni, Simla Indiæ (WATT).

21. **Uredo Arbuti** Diet. et Holw. Bot. Gaz. 1893, p. 256. — Soris hy- 1290 pophyllis, dense irregulariterque gregariis v. sparsis, non confluentibus,  $\frac{1}{4}$  mm. diam.; uredosporis piriformibus v. clavatis, hyalipis,

endoplasmate granuloso, aurantiaco faretis, echinulatis, 28-55 = 15-22.

*Hab.* in *Arbuto Menziesii*, Mount Tamalpais Californiæ (W. C. BLASDALE).

22. *Uredo Chimaphilæ* Peck 46 Rep. p. 33. — Maculis nullis; soris 1291 præcipue hypophyllis, sparsis v. confertis, epidermide diu tectis; uredosporis anguste ovato-oblongis v. subellipsoideis, 25-30 = 12, 5-18.

*Hab.* in floribus et foliis *Chimaphilæ maculatæ*, Amagansett Amer. bor.

23. *Uredo* (*Lecythea*) *pallens* Sacc., Fl. Myc. lusit. p. 8. — Soris hy- 1292 pophyllis, hinc inde dense et late gregariis, orbicularibus, minutis,  $\frac{1}{2}$ -1 mm. diam., depressis, epidermide demum cinctis, viridulo-ochroleucis; uredosporis ellipsoideis, basi apiculatis, 24 = 20, decidue pedicellatis, verruculosus, subhyalinis; paraphysibus clavato-capitatis levibus, hyalinis, capitulo 24-30 = 24, stipite 40-45 = 6.

*Hab.* ad folia languida *Vasconcellæ hastatæ* in Horto botanico, Coimbra Lusitaniæ. — Ob affinitatem cum *Lecythea salicina*, verisimillime ad *Melampsoram* quamdam spectat.

24. *Uredo Cornui* Har. Bull. Soc. Myc. 1891, p. 147. — Soris mi- 1293 nutis, punctiformibus, secus orbem dispositis, macula pallidiore insidentibus; sporis ovatis v. rotundato-ovatis, echinulatis, dilute flavidis, episporio hyalino 24-32 = 16-20.

*Hab.* ad folia *Euphorbiæ* in insula oceanica Wallis.

25. *Uredo Ichnocarpi* Barcl. Addit. Ured. 228. — Pustulis læte au- 1294 rantiis hypophyllis; uredosporis ovoideis, grosse papillato-spinulosis, 20-24 = 16-21.

*Hab.* in foliis *Ichnocarpi fusciscentis* pr. Simla Indiæ.

26. *Uredo Fici* Cast., Syll. VII, p. 247. — Var. *abyssinica* P. Henn. 1295 F. Æthiop. I, p. 113. — Maculis amphigenis, fusco-brunneis, irregulariter sparsis, 2-8 mm. diam.; soris hypophyllis, rotundatis, minutis, diutius tectis, ochraceis; uredosporis subglobosis, obovatis v. late clavatis, verrucis hyalino-flavescentibus 17-28 = 17-21.

*Hab.* in foliis vivis *Fici* spec., in Abyssinia.

27. *Uredo Celtidis* Pazschke Hedw. 1891, p. 199. — Sine maculis; 1296 soris fulvis, primo tectis dein liberis, pulveraceis et confluentibus, per totam paginam inferiorem foliorum irregulariter dispersis; uredosporis forma variis, ovatis v. piriformibus, sæpe inæquilaterilibus, pallide fulvis, aculeatis, 22-23 = 13-20.

*Hab.* in foliis vivis *Celtidis* spec., in Brasilia.



28. *Uredo Pileæ* Barcl. Addit. Ured. 228. — Pustulis minutissimis, 1297  
pallide flavis, sparsis, hypophyllis; uredosporis ovoideis, dilutissime  
flavidis, prominenti-spinulosis, 20-25  $\approx$  14-20.

*Hab.* in foliis *Pileæ* trinerviæ in silva Mashobra pr. Simla  
Indiæ.

29. *Uredo* (*Uromyces*?) *Aloes* Cooke Grev. Vol. XX, p. 16. — Ma- 1298  
culis suborbicularibus v. confluentibus, pallidis; soris convexis, ma-  
gnis, circinantibus v. super maculas confertis, sæpe confluentibus,  
diutius obtectis; uredosporis ellipticis v. subglobosis, levibus, epi-  
sporio crasso, 25-30  $\approx$  20; pedicellis hyalinis.

*Hab.* ad folia *Aloes*, in Africa orientali.

30. *Uredo Iridis* (Thüm.) Plowr. Brit. Ured. p. 257, *Uromyces* Thüm. 1299  
M. U. n. 2045, non *Uredo Iridis* DC. — Soris lineari-ovatis, sub-  
confluentibus, amphigenis, subcutaneis, dein nudis, castaneis; uredos-  
poris globulosis, raro subpiriformibus, echinulatis, brunneis, 30-  
35  $\approx$  20-25.

*Hab.* in foliis *Iridis* flavissimæ, spuria, pumilæ etc.  
in Sibiria, Germania, Britannia etc, ut plurimum in hortis. Cfr.  
Plowr. l. c.

31. *Uredo carnosa* Speg. Fl. Guar. nonn. p. 22, n. 62. — Acervu- 1300  
lis minutis, hypophyllis, subolivaceis, carnosocompactis, 300-600  
 $\mu$ . diam.; uredosporis globosis, levibus, fulvis, paraphysatis, 20-  
24  $\approx$  20.

*Hab.* ad folia viva *Orchidææ* cujusdam in silva Caaguazû,  
Amer. austr.

32. *Uredo Goodyeræ* Tranzschel Hedw. 1893, p. 240. — Pseudope- 1301  
ridio hemisphærico; uredosporis ovoideis 23-33  $\approx$  12-14.

*Hab.* in *Goodyera* repente Rossia.

33. *Uredo armillata* Ludw. Bot. Centralbl. 1890, n. 27. — Soris rufo- 1302  
brunneis, confluentibus et culmos armillæ modo (ad altid. 3-25 mm.)  
circumambientibus, sparsim laciniis epidermidis tectis; uredosporis  
rotundatis v. ellipticis v. piriformibus 23-30  $\approx$  15-20, spinosissimis,  
pallide brunneis.

*Hab.* in culmis *Junci* pallidi, Caromby Victoria Australia.

34. *Uredo Kärnbachii* Henn. Fung. Nov. Guin. II, pag. 23. — Soris 1303  
hypophyllis, gregariis, striiformibus v. linearibus sæpe confluenti-  
bus, diutius tectis dein erumpentibus, subpulverulentis, fusco-atris;  
uredosporis ovoideis, subglobosis, rarius ellipsoideis, levibus, fusco-  
brunneis, 23-28  $\approx$  18-24, episporio 2-4  $\mu$ . cr.; pedicello hyalino,  
plus minus elongato 3-4  $\mu$ . cr.

*Hab.* in foliis *Andropogonis Schoenanthi*, Bismark Archipelagus Oceanicæ (L. KARNBACH).

35. *Uredo Aspidiotus* Peck 24 Rep. p. 88. Teste ci. Dietel in Bot. Zeitschr. 1894, p. 46 differt ab *U. Polypodii*: uredosporis constanter majoribus, biformibus nempe tenui-tunicatis 32-48  $\approx$  16-26, et crassi-tunicatis 36-56(72)  $\approx$  27-40. Nascitur in Europa et America, amphigena in foliis *Phegopteridis Dryopteridis*. — *Uredo Polypodii* (Pers.) DC., Sacc. Syll. VII, p. 857, genuina, in *Cystopteride fragili* et in *Woodsia* in Europa et America bor. habet uredosporas quoque bifformes sed minores, nempe tenui-tunicatas 22-35  $\approx$  13-20 et crassi-tunicatas 26-38  $\approx$  18-29. — Teste vero B.M. Duggar, (Variab. in the spores of *Ur. Polypodii* in Proc. Amer. Acad. 1894, p. 396) species præcitatæ essentialiter non differunt.

36. *Uredo Pteridis* Diet. et H. in *Erythæa*, Aug. 1894.

*Hab.* in frondibus *Pteridis aquilinæ* in California. — Ab *U. Polypodii* differre videtur uredosporis echinulatis.

37. *Uredo Cosmææ* Lowe. Cfr. Grev. XX, p. 109, (in *Cosmea leucantha*, in ins. Madera).  
 38. *Uredo sphærospora* Berk. et Curt. Cfr. Grev. XX, p. 110, (in *Panico*, Pensilvania).  
 39. *Uredo ustulata* Berk. et Curt. Cfr. Grev. XX, p. 110, (in *Cypero*, in Carolina).  
 40. *Uredo Wrightii* Berk. et Curt. Cfr. Grev. XX, p. 110, (in *Croton*, Texas, Amer. bor.).  
 41. *Uredo Zornicæ* Berk. Cfr. Grev. XX, pag. 110, (in *Zornia*, ins. Mauritius).

42. *Uredo (Cæoma) Morotii* Har. et Poirault in Journ. de Bot. 1891, p. 272. — Soris pro more hypophyllis rarius caulinis, pustulæformibus, deplanatis non v. vix confluentibus, aurantiacis (in matrice viva), cinereo-albidis in sicco; uredosporis hyalinis, densissime tuberculatis; episporio crassiusculo, difformibus, subglobosis, ellipticis vel prismatico-cylindricis (*Melampsora* instar), 16-22  $\approx$  12-20. <sup>15/10</sup>

*Hab.* ad folia caulesque *Cardamines spec.*, in Fennia. — *C. Tropæoli* affinis.

43. *Uredo (Cæoma) Berberidis* Lévl. Ann. Sc. Nat. 1846, pag. 268, Har. Bull. Soc. Myc. 1891, p. 148. — <sup>1312</sup> *Spermogoniis* amphigenis, rotundatis, rufescentibus, minutissimis, in macula rufescenti insidentibus, sparsis, sporulis globosis circ. 4  $\mu$ . diam.; soris plerumque gregariis 1-12, frequentius secus nervos dispositis, amphigenis

quamvis rarius epiphyllis, rotundatis, prominulis, aurantiaco-flavis; uredosporis globosis v. ovoideis 20-28  $\approx$  18-20, punctulato-verrucosis, episporio hyalino (ad 6  $\mu$ . cr.) contentu dilute flavo; immixtis sporis aliis (ad paraphyses transeuntibus) et periphericis, fusiformibus, utrinque acutatis, 80  $\approx$  12.

*Hab.* ad folia Berberidis buxifoliae in Chili (Gay). — An eadem ac *Uredo? æcidiiiformis* Speg.?

44. *Uredo (Cæoma) Rhois* P. Henn. Æthiop. p. 114, t. V, f. 12. — 1313  
 Soris hypophyllis, gregariis confluentibusque, fusco-ochraceis, in maculis magnis flavis irregulariter dispositis; uredosporis subglobosis, plerumque leviter angulatis, verrucosis, flavis v. ochraceo-aurantiacis, 18-28  $\approx$  16-26.

*Hab.* in foliis vivis *Rhois abyssinicae*, in Abyssinia.

45. *Uredo (Cæoma) circumvallata* Magn. Berichte Dcut. Bot. Gesell. 1314  
 1891, p. 96, t. V, f. 12-20. — Maculis flavidis; soris irregulariter sparsis, saturate flavis, ob paraphyses piliformes periphericas albocinctis; uredosporis subovatis, 22-64  $\approx$  16-17, episporio baculis densis exasperato.

*Hab.* in foliis *Gei heterocarpi* in Armënia turcica (Born-MÜLLER).

46. *Uredo (Cæoma) cyclostoma* Lév. Ann. Sc. Nat. 1846, pag. 268, 1315  
 Her. Bull. Soc. Myc. 1891, p. 148. — Soris paginam inferiorem obtegentibus, numerosis, in greges congestis, poro circulari late apertis, sordide-flavescentibus; uredosporis ovatis v. limoniformibus, flavidulis, punctulato-verrucosis, 26-32  $\approx$  16-20.

*Hab.* ad folia *Conyzae* in Chili (Gay).

47. *Uredo (Cæoma) Anthurii* Har. Journ. de Bot. 1892, p. 458. — 1316  
 Soris amphigenis, præsertim epiphyllis, per totam superficiem foliorum sparsis nerviculisque, secus orbem et fer regulariter ordine concentrico dispositis, hemisphæricis, æqualibus, primum et diu epidermide tectis, macula amphigena orbiculari lateque expansa aurantiaco-flava insidentibus, luteis; uredosporis subrotundatis ellipticisve, utrinque obtusis, episporio crassiusculo, echinulatis (parte superiore præsertim), luteis, 32-36  $\approx$  26-28; mycelio inter cellulas folii abundanter et conspicue excurrente.

*Hab.* ad folia *Anthurii* spec. in calidariis Musei Parisiensis, in Gallia.

*Genera incertæ sedis.*

**UREDINOPSIS** P. Magn. Atti Congr. Gen. p. 167, t. IV, Genus quoad locum systematicum forte prope *Phycomyceteas* locandum, ex *Protomycele?* *filicino* Niessl institutum.

1. *Uredinopsis filicina* (Niessl) Magnus l. c. *Protomyces?* *filicinus* 1317  
Niessl. Cfr. Syll. VII, p. 858.

**ULEIELLA** Schroeter Hedw. 1894, p. (65). (Etym. a cl. E. ULE botanico collect. brasiliensi). — Fungus pulveraceus, in phanerogamis parasitans. Massa sporarum (?) in basi foliorum nidulans, sacculo e matrice formato inclusa, atra. Sporæ (?) majusculæ, plus minusve rotundatæ, membrana crassa, fusca, corpusculis (sporidiis?) rotundatis repletæ.

1. *Uleiella paradoxa* Schroet. l. c. — Massa sporarum (?) atra, grosse 1318  
pulveracea; sporis (?) globosis, ellipsoideis vel ovoideis, interdum basi attenuatis 20-36 = 14-27, membrana castaneo-fusca, punctulis excavatis exarata; corpusculis (sporidiis?) 6-8, rotundatis v. mutua pressione angulatis, 6-8  $\mu$ . cr. membrana levi præditis.

*Hab.* ad folia *Araucariæ* in Brasilia.

**ÆCIDICONIUM** Vuill. Compt. rend. Acad. sc. Paris 1892, Cfr. Bot. Centralbl. 1893, II, p. 43.

1. *Æcidiconium Barteti* Vuill. l. c.

1319

*Hab.* in foliis *Pini montanæ* in Gallia — Conidia adsunt, teleutosporæ vero non evolvuntur.

**MICHENERA** B. et C. Cuban Fungi p. 333, Sacc. Syll. VI, pag. 652, Sec. Pat. Bull. Soc. Myc. 1891, p. 42, est *Uredinea*!

*Fam. 2. Ustilaginaceæ Tul.*

**USTILAGO** Pers. — Syll. VII, p. 451, IX, p. 282.

1. *Ustilago confusa* Masee Grev. XX, pag. 65. — Soris ovariculis 1320  
mox denudatis, pulverulentis, violaceo-nigris; sporis dilute brunneo violaceis, subglobosis v. inæqualiter angulosis, 11-14  $\mu$ . diam, episporio levissimo 1  $\mu$ . crass.

*Hab.* in Panicis paradoxis ovariiis, Victoria Australiæ — Ab  
*U. destruyente*, quacum confundeatur, distincta.

2. **Ustilago comburens** Ludw. Ueb. ein. Rost. und Brandpilze Austral. 1321  
 — Soris atris pulverulentis in culmis et paniculis, quæ fere ex toto  
 destruuntur; sporis globosis v. ellipsoideis 4-5 = 3-4, episporio pal-  
 lide fusco, levi.

*Hab.* in culmis et inflorescentia Stipæ sp., in Australia merid.

3. **Ustilago Holwayi** Diet. Bot. Gaz. 1893, pag. 253. — Soris atro- 1322  
 brunneis, pulvereis, inflorescentiam omnino destruentibus; sporis  
 subglobosis v. obovatis, brunneis, verrucis magnis, asperatis 8-13  
 $\mu$ . diam.

*Hab.* in Hordeo pratensi, Camp Badger, California.

4. **Ustilago mediana** Biedenkopf in Zeitschr. für Paras. 1894, p. 321. 1323  
*Hab.* in spicis Hordei vulgaris prope Halle. — Inter *Ust.*  
*Hordei* et *U. Jensenii* media.

5. **Ustilago Stuhlmanni** P. Henn. F. Afr. II, p. 3. — Pulvere spora- 1324  
 rum atro, soris ad apicem culmorum in rachidem confluentibus,  
 eamque deformantibus, primo duris; sporis globosis, minute ver-  
 rucosis fusco-brunneis 10-12.

*Hab.* in Andropogonis spec. in Africa centrali.

6. **Ustilago Spinificis** Ludw. Ueb. ein. Rost. und Brandpilze Austral. 1325  
 in Zeitsch. Pflanzenkr. 1893, p. 138. — Soris olivaceis flores in-  
 quinantibus ovariaque destruentibus; sporis globosis, sublevibus,  
 3,5-5  $\mu$ . diam., griseo-olivaceis, *Ustilaginis hypodytis* modo ger-  
 minantibus.

*Hab.* in floribus et spicis Spinificis hirsutæ, in Australia  
 merid.

7. **Ustilago Tricholænæ** P. Henn. F. Afr. II, p. 3. — Soris in ovariiis 1326  
 cornuformibus, atris, 2-4 cm. long. usque ad 1 cm. crass., cuticula  
 tenui, levi (non hirsuta); sporis globosis, fusco-brunneis, puncta-  
 tis, 8-10 diam.

*Hab.* ad fructus Tricholænæ Teneriffæ in Arabia.

8. **Ustilago Taubertiana** Henn. Fung. bras. Glazov. II, pag. 525. — 1327  
 Pulvere sporarum atro, in fructibus incluso, raro, erumpenti; spo-  
 ris subglobosis v. subellipsoideis, acutangulis, olivaceo-fuscis, mi-  
 nute granulatis, 10-14 = 7-13, episporio fusco-brunneo, vix 5  $\mu$ . cr.

*Hab.* in fructibus Rhynchosporæ tenuis in Brasilia.

9. **Ustilago Vuijckii** Oud. et Beijer. Over twee nog onbekunde fungi 1328  
 in Gewon. 1894, p. 55. — Soris recenter ex ovariiis evacuatis la-  
 teritiis; sporis globosis, distincte reticulatis (areolis penta-v. hexa-

gonis) 14-18  $\mu$ . diam., singulis secundum ætatis gradum  $\pm$  provectum, fulvis, ferrugineis, ochraceis, imo achromis; sporis periphericis in orbem ordinatis, centralibus inordinatis; areolis sporarum 2  $\mu$ . latis, cristis 1,5  $\mu$ . crassis; promycelio cylindrico v. anguste clavato, 24  $\approx$  2-3, plerumque 3-septato, sporidiolis pleurogenis v. acrogenis, ellipticis v. ovatis 3,5  $\approx$  2,5 hyalinis.

*Hab.* in ovariis Luzulæ campestris, pr. Voorschoten Hollandiæ.

10. **Ustilago Liebmanni** P. Henn. Hedw. 1894, p. 230. — Soris inclusis ex brunneo atris, ovaria destruentibus sed non deformantibus; sporis globosis, atro-fuscis, granulatis, 12-16  $\mu$ . diam. 1329

*Hab.* in ovariis Luzulæ, Mexico (LIEBMANN).

11. **Ustilago catenata** Ludw. in Zeitschr. für Pflanzenkr. 1893, p. 139. — Soris micæformibus mycelio et chlamydosporarum catenis conjunctis, cinereo-nigris; sporis oblongis v. rotundato-angulatis, 5-6  $\approx$  4-6, episporio brunneo plus minus verruculoso. 1330

*Hab.* in spicis Cyperi lucidi in Australia merid. — *U. olivaceæ* affinis.

12. **Ustilago juncicola** Speg. F. Guar. pag. 15, n. 43. — Soris atris; sporis ovoideis, 10-12  $\approx$  8-9, compressis, episporio levi sed subgiboso-undulato, opace fuligineo. 1331

*Hab.* in ovariis Junci Chamissonis prope Guarapi Amer. merition.

13. **Uredo tonkinensis** P. Henn. Hedw. 1895, p. 11. — Maculis rufo-brunneis, amphigenis; soris hypophyllis rufo-brunneis, subellipticis; uredosporis, 20-28  $\approx$  16-26, ovoideo-piriformibus, brunneis, verruculosis, paraphysibus 45-60  $\approx$  15-25 hyalinis. 1332

*Hab.* in foliis Andropogonis spec., Hanoi Tonkin (BALANSA).

14. **Ustilago bosniaca** G. de Beck, Schedæ ad Cryptog. exsicc. Cent. I, pag. 121, t. II, f. 1. — Inflorescentiæ partes superiores pedunculosque valde tumefaciens et replens, demum rumpens; massa sporarum pulverea, atro-violacea; sporis ut plurimum globosis, minutissime verruculosis, 11-15  $\mu$ . diam., atro-violaceis. 1333

*Hab.* in inflorescentia et pedunculis Polygoni alpini in Mont. Vranica Planina Bosniæ, alt. 1600-1900 M. — Cl. G. de Beck l. c. merito condidit pro *Ustilagine austro-americana* Speg. nov. gen. *Melanopsichium* (t. II, fig. 2) et pro *Schröleria Cissi* (D.C.) De Toni, nov. gen. *Mycosyrinx* (t. II, fig. 3).

15. **Ustilago esculenta** P. Henn. Hedw. 1895, p. 10. — Soris olivaceo-brunneis in culmis floribusque saccatis, tuberculiformibus, sphæ- 1334

roideis v. elongatis bullato-inflatis plus minus cuticula pallida testis; sporis subglobosis,  $7-9 \approx 6-8$ , episporio brunneo, levi  $1 \mu$ . crass.

*Hab.* in inflorescentia adhuc clausa, quam deformat, *Zizaniæ latifoliæ*, Hanoi Tonkin. — *U. lineatæ* affinis (BALANSA).

**CINTRACTIA** Cornu. — Syll. VII, p. 480, IX, p. 285.

1. **Cintractia Eriocauli** Mass. Grev. XXII, p. 67. — Primo compacta, demum pulverea; soris magnitudine varia; sporis irregulariter angulatis demum globoso-angulatis,  $12-16 \mu$ . diam., episporio pallide brunneo, levi, circ.  $2 \mu$ . cr. 1335

*Hab.* in ovariis *Eriocauli fenestrati*, Boger in insula Madagascar (BARON).

2. **Cintractia Krugiana** Magn. Sep. Abdr. p. 490. — Sporis globosis, ovoideis v.  $4-5$ -angulatis,  $13-16 \mu$ . diam. v.  $16-68 \approx 10-34$ , episporio spiraliter verruculoso. 1336

*Hab.* in spicis *Rhynchosporæ giganteæ* prope Manati in insula Portorico.

**TILLETIA** Tul. — Syll. VII, p. 481, IX, p. 286.

1. **Tilletia rugispora** Ell. Descrip. new spec. Fung. in Journ. of Mycol. 1893, p. 275. — Soris griseo-tabacinis; sporis globosis, pallidiuscule brunneis,  $15-22 \mu$ . diam., tuberculoso-reticulatis, reticulis  $1 \mu$ . alt.,  $1,5 \mu$ . lat. 1337

*Hab.* in ovariis *Paspali plicatuli*, Texas Amer. bor.

2. **Tilletia Elymi** Diet. et H. Bot. Gaz. 1894, p. 305. — Soris nigris ovaria destruentibus; sporis globosis, atro-olivaceo-brunneis,  $24-28 \mu$ . diam.; episporio reticulato, reticulo  $2,6-4 \mu$ . alt. 1338

*Hab.* in ovariis *Elymi* spec. Skamania co. Amer. bor. (SUKS-DORE).

**ENTYLOMA** De Bary — Syll. VII, p. 487, IX, p. 286.

1. **Entyloma Eugeniæ** Cooke et Massee Grev. XIX, p. 92. — Soris pustulas atro-brunneas, applanatas, rotundas v. confluentes et angulosas,  $0,5 \text{ mm.}$  diam., formantibus, hypophyllis; sporis globosis v. oblongis vel angulosis,  $10-20 \approx 10-12$ , episporio crassissimo, levi, pallide brunneo. 1339

*Hab.* in foliis *Eugeniæ*, Brisbane Australiæ.

2. **Entyloma Trailii** Massee British Fung. p. 192, *Ent. Matricariæ* Trail in Plow. Brit. Ured. and Ustil. p. 291, nec Thüm. — Pustulis caulinis et foliicolis, subrotundo-ovatis, minutis, conidiis (*Cy-* 1340



(*Ustilago lindrosporiæ*) fusoides-filiformibus 15-20  $\approx$  1,5-2 pallide flavidis, obsolete 3-4-septatis; sporis immersis, rotundo-polygonis, 10-12  $\mu$ . diam., episporio levi 1,5  $\mu$ . cr., hyalino mox brunneo.

*Hab.* in *Matricaria inodora* in Britannia.

3. *Entyloma Nierenbergiæ* Lagerh. Bull. Soc. Myc. 1891, p. 171. — 1341  
Soris non callosis, maculas orbiculares pallidas formantibus; sporis sparsis, globosis v. angulato-globosis 9-12  $\mu$ . diam., membrana tenui levi, flavescenti; conidiis nullis.

*Hab.* in foliis *Nierenbergiæ* spathulatæ, Quito.

4. *Entyloma Veronicæ* (Halst.) Lagerh. Bull. Soc. Myc. 1891, p. 170. 1342  
— Conidiis fusiformibus, 27-30  $\approx$  2; sporis globosis 9-12  $\mu$ . diam., hyalinis, levibus.

*Hab.* ad folia *Veronicæ peregrinæ*, Quito.

5. *Entyloma Calceolariæ* Lagerh. Bull. Soc. Myc. 1891, p. 170. — 1343  
Soris maculas orbiculares 2-6 mm. latas ex albido flavescentes formantibus; sporis angulato-globosis, appendiculatis 12-15  $\mu$ . diam., episporio luteolo, levi, in matrice viva germinantibus; conidiis nullis.

*Hab.* in foliis *Calceolariæ*, Quito.

6. *Entyloma nectrioides* Speg. Fl. Guar. nonnulli p. 16, n. 45. — 1344  
Epiphyllum, sparsum; soris tumidulis, orbicularibus, mediocribus, fulvo-aureis; sporis e globoso ellipsoideis, maximis, levibus, tunica hyalina concentrice striata, endoplasmate aureo.

*Hab.* ad folia *Leguminosæ*? cujusdam arboreæ pr. Peribubay Brasilis.

7. *Entyloma Glaucii* Dang. Le Botaniste, 4 série 1894, pag. 12 c. 1345  
icon.

*Hab.* in foliis *Glaucii* in Gallia. — Oosporæ intercellulares, globosæ v. globoso-ellipsoideæ, tunica crassiuscula, colorata; maculae in foliis subcirculares, amphigenæ. De colore et mensuris auctor silet.

**ÆDOMYCES** Sacc. in Trab. Sur. une Ustilaginée parasite de la betterave in Rev. génér. de botanique, 1894, n. 70 (Etym. *oideo* tumeo et *myces*). — De hoc mycete mox professor O. Mattirol et auctor fusiorem illustrationem dabunt.

1. *Ædomyces leproides* Trab. l. c. cum tabula.

1346

*Hab.* in parte sup. radicum *Betæ vulgaris* var. *rapaceæ*, ubi tumores crassos, carnosos, colliculosos gignit. — Sporæ globoso-depressæ, umbrinæ, 45-50  $\mu$ . diam. e latere 30  $\mu$ . cr., intra cystas

sphæroideas conglobatæ, ramis mycelicis infra sporam vesiculoso-inflatis suffultæ, acrogenæ et intercalares.

**SCHROETERIA** Wint. — Syll. VII, p. 550, IX, p. 288.

1. **Schroeteria Cissi** (DC.) De-Toni Syll. VII, 501. — var. **arabica** 1347  
P. Henn. Malp. 1891, p. 89. — Sporis 2-conjugatis, globosis v. polyhedricis, fusco-nigris 11-16  $\mu$ .; episporio crasso, levi; pedicello hyalino 2-5  $\mu$ . long.

*Hab.* intra petiolos et ramulos Cissi quadrangularis in Arabia.

**TOLYPOSPORIUM** Woron. — Syll. VII, p. 501.

1. **Tolyposporium Davidsonii** Diet. et H. Bot. Ges. 1894, pag. 305, 1348  
tab. 29, f. 5. — Sporis intra minutas gallas sphæricas duriusculas 0,7 mm. diam., in perigoniis matricis generatas, pulverulentibus, pulverulentis, læte brunneis tandem erumpentibus, in maculas polymorphas per 2-7 aggregatis; sporis oblongis v. isodiametricis hinc applanatis, extus dense verrucosis, 12-15  $\approx$  7-13.

*Hab.* in perigoniis Atriplicis spec., Los Angeles Californiæ (DAVIDSON).

**DOASSANSIA** Cornu. — Syll. VII, p. 502, IX, p. 288.

1. **Doassansia Sintenisii** Bres. in Bres. Henn. et Magnus Pilze Portorico Sinten. p. 489. — Soris plerumque amphigenis, rotundatis 1349  
v. irregularibus, pustuliformibus, in maculis purpureis indeterminatis insidentibus; sporis rotundato-angulatis, sæpe conglobatis, aureo-fulvis, levibus 5-7  $\mu$ . diam., tegumento communi pallido parum distincto.

*Hab.* in foliis Cedro-matshos (?) in insula Portorico (SINTENIS).

2. **Doassansia ranunculina** Davis Bot. Gaz. 1894, p. 416. 1350

*Hab.* in foliis raro petiolis Ranunculi multifidi in udis Wisconsin Amer. bor. — Maculæ brunneæ, 2-4 mm. diam.; sori subglobosi 100-200  $\mu$ . diam.; sporæ sphæroideæ v. subglobosæ, 6-10  $\mu$ . diam.; corticis cellulæ unistratosæ, sectione subquadrata, 10-15  $\approx$  8-12; promycelium et sporidiola adsunt.

3. **Doassansia Gossypii** Lagerh. Journ. of Myc. 1891, p. 49. — Soris 1351  
rotundatis punctiformibus, minimis, sparsis, atris arcæ, conjunctis, ovalibus v. oblongis, 21-30  $\approx$  12-15, episporio levi, dilute luteolo, tegumento communi e cellulis minoribus, membrana fusca, levi constituto.

*Hab.* in foliis *Gossypii* spec. ad Balsapamba Æquatoricæ.

4. *Doassansia deformans* Setchell Exam. Doass. p. 44, t. I, f. 51-58 1352  
et II, f. 81. — Soris subglobosis, 100-140  $\mu$ . diam., pallidis; sporis 8-12  $\approx$  4-6; corticis cellulis depressis, distinctis; promycelio obconico, circ. 12  $\mu$ . long.; sporidiolis 5-6 in quoque verticillo, late fusoides.

*Hab.* in petiolis, foliis, pedunculis et ovariis *Sagittariæ* variabilis, Norwich et Cambridge Amer. bor.

5. *Doassansia opaca* Setchell Exam. Doass. p. 43, t. II, f. 72-74. — 1353  
Macula orbiculari, utrinque subinflata, citrina; soris indistinctis, subcuboideis, confertis, 200-300  $\approx$  80-100, subglobosis, 10-15  $\mu$ . diam.; corticis cellulis irregularibus subcuboideis vel laterifor-  
mibus.

*Hab.* in *Sagittaria* variabilis, Newton, Massachussetts Amer. bor.

6. *Doassansia obscura* Setchell Exam. Doass. p. 43, t. I, f. 33-34 et 1354  
II, f. 75-77. — Macula citrina, indistincta v. nulla; soris in lineas verticales intra interstitia intercellularia subglobosis, 150-300 diam.; corticis cellulis obconicis, dilute brunneis; promycelio cylindræo, circ. 20  $\mu$ . long.; sporidiolis 5-7 in quoque verticillo, 16-17  $\approx$  1,5-2, sporidiola secundaria sine conjugatione gignentibus.

*Hab.* in petiolis et pedunculis *Sagittariæ* variabilis, Norwich, Connecticut Amer. bor.

**CORNUELLA** Setchell Exam. Doass. p. 45 (Etym. ab illustri M. CORNU). — Sori extus e stratu firmo sporarum, intus ex hyphis laxis constituti. Cortex nullus.

1. *Cornuella Lemnæ* Setch. l. c. t. II, f. 82-83. — Macula nulla; so- 1355  
ris e globoso ellipsoideis, 50-70  $\mu$ . diam., brunneolo-nigris; hyphis brunneis; sporis acrogenis, 10-12  $\approx$  6-12; promycelio obconico, circ. 16  $\mu$ . long.; sporidiolis 5-7 in quoque verticillo, circ. 26  $\approx$  2.

*Hab.* in *Lemna polyrrhiza*, Belchertown, Newton et Cambridge Amer. bor.

**BURRILLIA** Setchell Exam. Doass. p. 44 (Etym. a cl. prof. T. J. BURRILL). — Sori ad centrum parenchymatici. Sporæ in stratus plures, irregulares, compactos dispositæ. Cortex nullus.

1. *Burrillia pustulata* Setch. l. c. t. II, f. 84. — Macula nulla v. vix 1356  
distincta; soris pustulas hypophyllas demum gignentibus, erumpentibus, ellipsoideis, 200-300  $\approx$  150-180; sporis 2-6-seriatis, polyhe-

dricis, 4-6  $\mu$ . diam.; promycelio cylindræco; sporidiolis 4-5 in quoque verticillo, 16  $\approx$  3.

*Hab.* in foliis *Sagittariæ variabilis*, Dixon et Madison Amer. bor.

**THECAPHORA** Fing. — Syll. VII, p. 507, IX, p. 289.

1. *Thecaphora oligospora* Cocconi Svil. tre picc. fung. p. 7, t. I, f. 1-7. 1357  
— *Nigricans*, pulverulenta, floricola; glomerulis inæqualiter globosis, brunneo-nigris, 25-32  $\mu$ . diam., cellululis v. sporis subæqualibus, pentagono-polyhedricis, 5-8  $\mu$ . diam., in quoque soro 8-12, e i sporio levi.

*Hab.* in spicis *Caricis digitatæ*, Casalecchio pr. Bononiam.  
— Ob numerum exiguum cellularum in quoque glomerulo prædistincta species.

**SOROSPORIUM** Rud. — Syll. VII, p. 511, IX, p. 288.

1. *Sorosporium Solidaginis* E. et E. New sp. north Amer. Fung. in 1358  
Proceed. Acad. S. N. Philad. 1893, pag. 156. — Glomerulis, subglobosis, 30-50  $\mu$ . diam., e sporis 12-40 v. ultra stricte conglutinis, 8  $\mu$ . diam., episporio delicate verrucoso, fumoso-succineis, constitutis.

*Hab.* in floribus *Solidaginis missouriensis*, Rockport, Kansas Amer. bor.

**UROCYSTIS** Rab. — Syll. VII, p. 515, IX, p. 290.

1. *Urocystis Waldsteiniae* Peck 46 Rep. p. 22. 1359  
— Soris magnis, oblongis, secus folii nervos dispositis, epidermide lacera cinctis, nigris; sporis haud facile secedentibus, in quoque glomerulo 3-6, subglobosis v. ellipsoideis, sæpe angulatis, 12,5-15  $\approx$  10-12,5.

*Hab.* in foliis *Waldsteiniae fragarioidis*, Alcone Amer. borealis.

2. *Urocystis Oxalidis* Pazschke Hedw. 1892, p. 94. — Soris primo 1360  
tectis dein erumpentibus; glomerulis sporarum forma variis, irregulariter globosis, v. oblongis; sporis centralibus 3-10, globosis v. oblongis, læte fulvis 10-20  $\approx$  9-11; sporis periphericis subhemisphæricis v. irregularibus, numero vario, subhyalinis, usque ad 4-5  $\mu$ . cr.

*Hab.* in petiolis scapisque *Oxalidis*, Tubarao, in Brasilia.

**CEREBELLA** Ces. — Syll. VII, p. 523, IX, p. 290 (Dubiae sedis).

1. **Cerebella Spartinae** E. et E. New sp. north Amer. Fung. in Pro- 1361  
ceed. Acad. S. N. Philad. 1893, p. 156. — Stromatibus 2-4 mm.  
lat., tenuibus, subconfluentibus, gyroso-v. poroso-plicatis, atro-oli-  
vaceis; sporis singulis ovoideis v. globosis, 6-10  $\mu$ . diam., palli-  
dis, episporio minute granulatis, 3-4 in glomerulos subquadratos  
connatis, 12-16  $\mu$ . diam. sæpe brevi crasseque pedicellatis.

*Hab.* in spicis. *Spartinae* gracilis, Biloxi, Missouri Amer.  
borealis.

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# PHYCOMYCETÆ DE BARY.

Syll. VII, p. 181, IX, p. 335 \*).

## Fam. 1. Mucoraceæ De Bary.

**MUCOR** Mich. — Syll. VII, p. 190, IX, p. 335.

1. **Mucor septatus** Bezold in Sieb. Schimmelm. d. Ohres 1889, 1364 p. 97, t. 4, f. 3, A. Fisch. Phycom. p. 208.

*Hab.* in interiore aurium, in Germania. — Verisimiliter non diversus a *M. racemoso*.

2. **Mucor helminthophthorus** De Bary et Keferst. in Zeitschr. wiss. 1369 Zool. 1861, XI, t. XV, A. Fisch. Phycom. p. 210.

*Hab.* in Ascaride Mystace, in Germania.

3. **Mucor melittophthorus** Hoffm. in Hedwigia 1857, p. 119, t. 16, 1364 Fisch. Phyc. p. 210.

*Hab.* in interiore Apium in Germania.

4. **Mucor rufescens** Fisch. Phyc. p. 192. 1365

*Hab.* in fimo Elephantis in Germania.

5. **Mucor heterosporus** Fisch. Phycom. p. 199. 1365

*Hab.* in fimo Hyænæ, Tigris, Leonis etc. in Germania.

6. **Mucor alternans** Van Tiegh. in Ann. Inst. Pasteur I, p. 534, f. 1-10, 1367 Fisch. Phycom. p. 205.

*Hab.* in fimo; nec non cultus in solutione saccharina etc. in Gallia.

7. **Mucor platensis** Speg. Rev. Arg. H. N. 1891, p. 28. 1368

*Hab.* in republica Argentina.

8. **Mucor piriformis** Fisch. Phyc. p. 191. 1366

*Hab.* in fructibus Piri Mali putridis, in Germania.

9. **Mucor globosus** Fisch. Phycom. p. 202. 137

*Hab.* in pane, in fructibus Æsculi, Juglandis etc. in Germania.

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\*) Quum jam habeamus Phycomycetam absolutam monographiam a cl. doct. A. FISCHER pro *Kryptogamen-flora Deutschl.* I, IV, Leipz. 1892, elaboratam, qua nullus mycologus carere potest, hic species et genera Syllogi addenda tantum enumeravi, additis locis natalibus; cetera videas apud Fischer. l. c.

10. **Mucor parasiticus** Bain. Ann. Sc. Nat. 1884, p. 212, t. 9, f. 11. 1371  
Fisch. Phycom. p. 208.

*Hab.* ad hyphas aliorum mycetum parasitice in Gallia.

11. **Mucor? chlorosporus** Bonord. Abh. 1864, p. 113, t. 2, f. 3 (*Hydrophora*), Fisch. Phycom. p. 209. 1372

*Hab.* in substantiis variis putridis, in Germania. An Hyphomycetæ?

**RHIZOPUS** Ehrenb. — Syll. VII, p. 212.

1. **Rhizopus Oryzæ** Went, Beobacht. Hefeart. etc der Arackfabr. p. 16, 1373  
t. II-IV.

*Hab.* in *Oryzæ* fructibus fermentescentibus, Kagok, Tegal Javæ.  
— Sporangia subglobosa 170  $\mu$ . circ. diam.; apophysis 35  $\mu$ . diam.,  
columella 120  $\approx$  100; sporæ ellipsoideæ, leves 7-8  $\approx$  4-5.

2. **Rhizopus arrhizus** Fisch. Phycom. p. 233. 1374

*Hab.* in capsulis immaturis putridis Liliacearum, in baccis  
*Ribis* immaturis, in Germania.

**ABSIDIA** Van Tiegh. — Syll. VII, p. 214, IX, p. 337.

1. **Absidia dubia** Bain. Etud. Mucor. 1882, p. 73; Fisch. Phycom. 1375  
p. 239.

*Hab.* in substantiis putrescentibus in Gallia. — Sporæ 2,2-4  
 $\approx$  2,2.

**THAMNIDIUM** Link. — Syll. VII, p. 211, IX, p. 337.

1. **Thamnidium simplex** Rref. Unters. IV, 1881, p. 58, t. 2, f. 6, Fisch. 1376  
Phycom. p. 245.

*Hab.* in fimo in Germania.

- DICRANOPHORA** Schröt. Jahresb. Schles. Ges. LXIV, (1886) p. 184,  
Fisch. Phycom. p. 253 (Etym. *dis* bis *cranon* et *phoreo* fero). —  
Sporangia dimorpha; majora sporis ellipsoideis, minora (sporangiola) sporis reniformibus majusculis fœta.

1. **Dicranophora fulva** Schröt. l. c.

*Hab.* in Paxillo involuto pr. Rastatt Germaniæ. 1377

**MORTHIERELLA** Coem. — Syll. VII, p. 220, IX, p. 337.

1. **Morthierella capitata** March. Champ. copr. VI, p. 3. — Mycelio 1378  
repenti, inordinate ramoso, flexuoso, continuo, albo; hyphis fructiferis  
basi appendiculis mycelicis crassis munitis, erectis interdum



inferne curvatis, continuis, 350-500  $\mu$ . longit. non superantibus, in media parte 18-23  $\mu$ . cr. simplicibus (rarissime 1-2 ramos breves haud inflatos exhibentibus), cylindraceis, inferne sensim incrassatis, apice ovoideo-inflatis, 13-18  $\mu$ . diam. ramulos simplices (rarius irregulariter bifurcatos) cylindricos, graciles, rectos vel inferne arcuatos, 8-14  $\approx$  2,5-4 apice sporangiferos gerentibus; sporangiis numerosis, globosis, oligosporis, hyalinis, pedicellatis, in capitulum magnum, 57-92  $\mu$ . diam. confertis; sporis semper eximie sphaeroidis, vix gelatinoso-congestis, nucleo magno repletis, 8,5-10  $\mu$ . diam. hyalinis.

*Hab.* parasitica in stromatibus filiformibus *Xylariae Tulasnei* supra fimum leporinum evolutis, Boekryk Belgii.

2. *Morthierella? umbellata* Bonord. Abhand. Mykol. II, p. 45. (*Hy-drophora*), Fisch. Phyc. p. 282.

*Hab.* in pane albo udo in Germania,

**PIPTOCEPHALIS** De Bar. et W. — Syll. VII, p. 225, IX, p. 338.

1. *Piptocephalis fusispora* Van Tieg. Syll. VII, p. 226. — var. *lepidula* March. Champ. copr. VI, p. 5. — Mycelio adnato, albo, arachnoideo, continuo, flexuoso, parce ramoso, 2  $\mu$ . diam.; hyphis fertilibus basi appendiculis mycelicis curvatis ornatis, erectis, continuis, luteo-brunneolis, pro genere minutissimis, tantum 140-280  $\approx$  3-3,8  $\mu$ . ramosis, 2-4, ramis primariis, verticillatis v. subverticillatis, rarius in duos verticillos approximatos digestis, simplicibus aut semel aut bis dichotome divisis, apice vesiculoso-inflatis, vesicula ovoidea, minuta, tuberculigera demum caduca; sporangiis parvis, cylindraceis, brevibus, 2-sporis; sporis ellipticis, 4-4,2  $\approx$  2-2,3  $\mu$ . hyalinis.

*Hab.* ad Mucorem racemosum in fimo *Macropodis* seu «kangaroo» ex horto zoologico Gandavensi misso domique humectato servato.

**HELICOSPORANGIUM** H. Karst. — Syll. IX, p. 338.

1. *Helicosporangium coprophilum* Zuk. Unter. Pilzbulb. p. 6, t. IV, 1331 f. 3.

*Hab.* in fimo equino Vindobonæ Austriæ, socio *Stysano Stemonite*. — Bulbilli subglobosi atrorubri 40-60  $\mu$ . d., e cellulis centralibus polyhedricis pluriguttatis; hyphæ sæpe scorpioideo-curvæ.

**CHLAMYDOMUCOR** Bref. sec. Went et Prinsen-Geerlings, Over Sui-

ker-en alcoholvorming etc. p. 7, t. III, f. 1-8 et Beob. Arackfabr. Amsterd. 1895, p. 14. — Propagatio tantum per chlamydosporas.

1. *Chlamydomucor Oryzæ* W. et P. l. c.

1382

*Hab.* in *Oryza fermentescenti*, Kagok-Tegal Javæ. — Forte status *Mucoris Oryzæ* Went. ex ipso auctore.

2. *Chlamydomucor Rouxii* (Calm.) Went. l. c. *Amylomyces Rouxii* 1383

Calmette Ann. Inst. Pasteur, Paris 1892, VI, p. 604.

*Hab.* in *Oryza fermentescenti* « levure chinoise » in Gallia.

**SYNCEPHALASTRUM** Schröt. — Syll. VII, p. 232.

1. *Syncephalastrum nigricans* Vuillemin. in Bull. Soc. Sc. Nancy 1887, 1384  
p. XXXIV, Fisch. Phyc. p. 309, nec *Syncephalis nigricans*  
Van Tiegh.?

*Hab.* in gelatina uda fœdata in Gallia.

2. *Syncephalastrum elegans* March. Bull. Soc. Belg. Microsc. 1893, 1385  
p. 124, c. ic.

*Hab.* in cortice udo *Cinchonæ rubræ*, Bruxelles. — Hyphæ 1-3 mm. long., 10-25  $\mu$ . cr., hyalinæ, ramosæ, vesiculis 50-80  $\mu$ . diam. terminatæ; sporangia cylindracea 40-60  $\approx$  2,5-5; sporæ globoso-cuboideæ 2-3,5  $\mu$ . d. hyalinæ.

*Fam. 2. Paronosporaceæ* De Bary.

**CYSTOPUS** Lév. — Sacc. Syll. VII, p. 233, IX, p. 340 \*).

1. *Cystopus Tilleæ* Lagerh. Bull. Soc. Myc. 1891, p. 167, t. XI, f. III. 1386

*Hab.* in foliis *Tilleæ rubescentis*, Quito Æquatoriae.

2. *Cystopus platensis* Speg. Rev. Arg. H. N. 1891, p. 28.

1387

*Hab.* in foliis *Boerhaviæ hirsutæ* La Plata.

3. *Cystopus tropicus* Lager. Bull. Soc. Myc. 1892, p. 123.

1388

*Hab.* in foliis *Piperaceæ* cujusdam, Puente de Chimbo Æquatoriae.

4. *Cystopus Euphorbiæ* Cooke et Mass. Grev. XX, p. 106. — Soris 1389  
plerumque cauliculis, oblongis confluentibusque, in plagas atrofuscas insidentibus; conidiis subglobosis vel oblongis, 12  $\approx$  8, achrois,

\*) Nomen *Albugo*, quod jam Persoon adhibuit ut sect. *Ustilaginis* (!) et quod nonnulli hodie resuscitare volunt pro ubique accepto et eximie definito *Cystopus*, est omnino rejicendum, etiam ex eo quod sit ex nominibus communibus (Cfr. *albugo* in Lexicis) quæ jam Linné a generibus excludenda merito prædicabat (Cfr. ejusdem *Termini botanici* § 231).

membrana minute asperula, subcrassa; oosporis subglobosis, levibus, succineis,  $15 \times 12$  (junior.).

*Hab.* in *Euphorbia hebecarpa* pr. Bactiary Persiæ (Doct. STAFF).

**PLASMOPARA** Schröt. — Syll. VII, p. 239, IX, p. 342.

1. *Plasmopara Heliocarpi* Lager. Bull. Soc. Myc. 1892, p. 123. 1390

*Hab.* in foliis *Heliocarpi americani*, Puente de Chimbo Æquatoriæ.

**PERONOSPORA** Corda. — Syll. VII, p. 244, IX, p. 342.

1. *Peronospora Cytisi* Magn. in Hedw. 1892, p. 150, t. VIII, f. 1-12. 1391

*Hab.* in foliis *Cytisi Laburni*, pr. Kissingen Germaniæ. — Conidia  $23 \times 17-18$ ; oosporæ globoso-angulosæ, sulcatæ,  $28 \mu$ . d.

2. *Peronospora Hydrophylli* M. B. Waite, Journ. Mycol. VII, p. 107, 1392 t. XVII, f. 17-24.

*Hab.* in *Hydrophylo virginico*, Illinois, Iowa, Washington Amer. bor.

3. *Peronospora Impatientis* Ell. et Ev. Proc. Acad. Phil. 1891, p. 86. 1393

— Laxe cæspitulosa, confluens, alba, hypophylla; hyphis  $200-300 \times 8-10$ , iterato-trifidis, ramis patentibus, apice 3-spiculosis; conidiis globosis  $12-14 \mu$ . diam. v. ellipsoideis  $15-17 \times 12-14$ ; oosporis ignotis.

*Hab.* in foliis *Impatientis fulvæ*, Wilmington Del. Am. bor.

4. *Peronospora Nicotianæ* Speg. Rev. Arg. H. N. 1892, p. 28-38. 1394

*Hab.* in foliis *Nicotianæ longifloræ*, Argentina.

5. *Peronospora phlogina* Diet. et H. Bot. Gaz. 1894, 306. 1395

*Hab.* in foliis *Phlogis divaricatæ*, Decorah, Iowa Amer. bor. (HOLWAY). — Conidia  $26-29 \times 16-20$ , subhyalina; oosporæ sphaericæ  $32-48 \mu$ . diam., verrucosæ flavo-brunæ.

6. *Peronospora Borreriæ* Lager. Bull. Soc. Myc. 1892, p. 123. 1396

*Hab.* in foliis *Borreriæ*, Puente de Chimbo Æquatoriæ.

7. *Peronospora Celtidis* M. B. Waite, Journ. Mycol. VII, p. 105, 1397 t. XVII, f. 1-16.

*Hab.* in foliis *Celtidis occidentalis*, Washington Am. bor.

8. *Peronospora Gonolobi* Lagerh. Journ. of Myc. 1891, p. 49. 1398

*Hab.* in foliis *Gonolobi* in Carolina infer. Amer. bor.

**CHLOROSPORA** Speg. Rev. Arg. H. N. 1891, p. 29 (Etym. *chloros* virens et *spora*).

1. *Chlorospora vastatrix* Speg. l. c.

1399

*Hab.* in bulbis Allii Cæpæ, La Plata Amer merid.**PYTHIUM** Pringsh. — Syll. VII, p. 270, IX, p. 347.1. *Pythium intermedium* De Bary, Bot. Zeit. 1881, Fisch. Phyc. p. 407. 1400*Hab.* in plantulis emortuis Lepidii et Amaranthi, aqua jam immersis etc. in Germania.2. *Pythium Artotrogus* (Mont.) De Bary l. c. 1881, 578, *Artotrogus* 1401  
*hydno sporus* Mont. Ann. Sc. Nat. 1849, p. 56.*Hab.* in plantis emortuis udis in Gallia et Germania.3. *Pythium complens* Fisch. Phyc. p. 398, *Pythium reptans* De Bary 1402  
p. p.*Hab.* in Muscis putridis aqua immersis etc. in Germania.4. *Pythium ferax* De Bary, Bot. Zeit. 1881, p. 562. 1403*Hab.* in Muscis emortuis etc. in Germania.5. *Pythium vexans* De Bary, Bot. Zeit. 1881. p. 537, Fisch. Phyc. 1404  
p. 406, nec *P. De-Baryanum* Hesse.*Hab.* in tuberibus putrescentibus Solani tuberosi, saprophytice, in Germania.6. *Pythium? Actinosphærii* Brandt, Monat. Berl. Acad. 1881, p. 399, 1405  
f. 33. 53.*Hab.* in Actinosphærio in Germania.7. *Pythium? incertum* Renny in Just Jahresber. 1876, p. 134. 1406*Hab.* in foliis Cupheæ cultæ in Britannia.8. *Pythium dictyospermum* Racib. in Fisch. Phycom. p. 490. 1407*Hab.* ad Spirogyram in aquis Poloniæ. — *P. gracili* affine.*Fam. 3. Saprolegniaceæ* De Bary.**SAPROLEGNIA** Nees. — Syll. VII, p. 268, IX, p. 345.1. *Saprolegnia Treleaseana* Humphrey, Saprolog. Unit. Stat. p. 111, 1408  
t. XVII, f. 56-59.*Hab.* in aquis Massachusetts Amer. bor. (TRELEASE).2. *Saprolegnia philomukes* W. Smith in Massee Br. Fungi 1891, p. 218. 1409*Hab.* parasitica in Isaria fuciformi, in Britannia.3. *Saprolegnia elongata* Mass. Br. Fungi 1891, p. 217, f. 47-49. 1410*Hab.* in stipite putrescenti Filicis cujusdam arboreæ in aquario in Britannia.

**ACHLYA** Rees. — Syll. VII; p. 274, IX, p. 346.

1. *Achlya Nowickii* Racib. in Fisch. Phyc. p. 490.

1411

*Hab.* inter Saprolegniam monoicam ad pisces ægrotantes, in Polonia. — *A. spinosæ* affinis.

2. *Achlya americana* Humphrey Sapr. Unit. St. p. 116, t. XVIII, 1412 f. 69-73.

*Hab.* in aquosis, Massachusetts, Pensilvania, Alabama et Louisiana, Amer. bor.

3. *Achlya megasperma* Humphrey Sapr. Unit. Stat. p. 118, t. XVIII, 1413 f. 74-77.

*Hab.* in animalculis aquaticis, Massachusetts Amer. bor.

4. *Achlya papillosa* Humphrey Sapr. Unit. St. p. 125, t. XX, f. 99-102. 1414

*Hab.* in animalculis aquaticis, Massachusetts Amer. bor.

5. *Achlya aplanes* Adam M. in Flora 1894, Ergänzt. p. 135, t. IV, 1415 f. 28-31.

*Hab.* in luto algis mixto rivuli cujusdam pr. Klein. Scheidegg. Graubünden Helvetiæ. — Affinis *A. oblongatæ* et *A. proliferæ*, sed prædistincta.

**BLASTOCLADIA** Reinsch in Fisch. Phyc. p. 367 (Etym. *blastos* germen et *clados* ramus).

1. *Blastocladia Pringsheimii* Reinsch l. c.

1416

*Hab.* in fructibus Mali in aqua putrescentibus in Germania.

**APODACHLYA** Pringsh. Ber. d. bot. Ges. I, p. 289, Fisch. Phyc. p. 373 (Etym. *a* priv. *pous* pes et *Achlya*). Huc spectat quoque *A. brachynema* (Hildenb.) Prings., *Leptomitis brachynema* Hild.-Syll. VII, p. 265.

1. *Apodachlya* (?) *completa* Humphrey Sapr. Unit. Stat. p. 137, t. XX, 1417 f. 119-121.

*Hab.* in aquosis Louisiana Amer. bor. (LANGLOIS).

2. *Apodachlya pirifera* Zopf. Nov. Act. Leop. 1888, p. 362, Fisch. 1418 Phyc. 374.

*Hab.* ad Characeas putres, in Germania.

**NAEGELIA** Reinsch, in Fisch. Phyc. p. 377 (Etym. ab illustri C. NÆGELI). — Auctor distinguit sine nomine duas species, quarum una inventa est in caulibus Visci putridis aqua immersis, altera in Algis viridibus: utraque in Germania.

*Fam. 4. Chytridiaceæ De Bary et Wor.***OLPIDIUM** A. Braun. — Syll. VII, p. 310, IX, p. 361.

1. *Olpidium pendulum* Zopf in Schenk's Handb. IV, 1890, p. 555, t. 66, 1419 I-V, Fisch. Phycom. p. 30.

*Hab.* in polline Pini in Germania.

2. *Olpidium simulans* De Bary et Woron. in Ber. nat. Ges. Freib. III, 1420 1863, p. 29, t. II, f. 11-16, Fisch. Phycom. p. 29.

*Hab.* in epidermide foliorum juvenilium *Taraxaci officinalis*, socio *Synchytrio Taraxaci*, in Germania.

3. *Olpidium Bryopsidis* De Bruyne Arch. biol. X, p. 85, t. V, f. 1-15. 1421 Fisch. Phycom. p. 26.

*Hab.* in *Bryopside plumosa* in sinu Neapolitano.

4. *Olpidium zygneticum* Magnus Rot. Ver. Brand. XXVI, p. 79, 1422 Fisch. Phycom. p. 25.

*Hab.* in quodam *Zygnemate sterili*, in Germania.

5. *Olpidium Sphacelarium* Kny Sitzungsber. nat. Fr. Berl. 1871, 1423 (*Chytridium*), Fisch. Phycom. p. 26.

*Hab.* in *Sphacelariis variis*, in mari Baltico etc.

6. *Olpidium aggregatum* Dang. in Botaniste 1891, p. 237, t. 16, f. 25- 1424 26, Fisch. Phycom. p. 26.

*Hab.* in *Cladophoris marinis*, in Europa.**REESIA** Fisch — Syll. VII, p. 304.

1. *Reesia Cladophoræ* Fisch in Sitz. med. phys. Soc. Erlang. 1884, 1425 Fisch. Phycom. p. 32.

*Hab.* in *Cladophoris*, in Germania.**PSEUDOLPIDIUM** Fisch. Phycom. Deutschl. p. 33 (Etym. *pseudos falsus* et *Olpidium*).

1. *Pseudolpidium Saprolegniæ* (A. Braun.) Fisch. l. c., *Chytridium* 1426 *Saprolegniæ* A. Braun Abh. Berl. Acad. 1855, p. 61, pr. p.

*Hab.* in *Saprolegniis*, *Achlyis*, *Aphanomycete* etc. in Germania.

2. *Pseudolpidium glenodinianum* (Dang.) Fisch. l. c. p. 36, *Olpidium* 1427 Dang. Journ. de Bot. 1888, p. 6.

*Hab.* parasitice in *Glenodinio cincto* (e *Peridineis*) in Gallia et Germania.

**OLPIDIOPSIS** Cornu. — Syll. VII, p. 299, IX, p. 362.

1. *Olpidiopsis minor* Fischer Phycom. p. 39.

1428

*Hab.* in *Achlyia leucosperma*, *A. racemosa* etc. in Germania et Gallia.

2. *Olpidiopsis Schenkiana* Zopf in Nov. Act. Leop. XLVII, 1884, p. 168, t. 15, f. 1-32, Fisch. Phycom. p. 39.

1429

*Hab.* in *Mesocarpus*, *Mougeotia*, *Spirogyris* etc. in Germania.

3. *Olpidiopsis parasitica* (Fisch.) Fisch. Phycom. p. 40, *Pleocystidium parasiticum* Fisch. Beitr. Chytrid. 1884, p. 42, f. 24-29.

1430

*Hab.* in *Spirogyris*, in Germania.

**SYNCHYTRIUM** De Bary. — Syll. VII, p. 288, IX, p. 357.

1. *Synchytrium Melicopidis* Cooke et Massee Grev. XX, p. 120. — Cellulis perdurantibus aggregatis, subconfluentibus, granuliformibus, violaceis, 20-25  $\mu$ . diam., vulgo maculis orbicularibus, epiphyllis, atropurpureis insidentibus.

1431

*Hab.* in foliis *Melicopidis simplicis* in Nova Zelandia (COLENSO).

2. *Synchytrium Geranii* Ida Clendenin in Bot. Gaz. 1895, p. 30, t. I, *S. Geranii* E. et G. et *S. Fairchildii* E. et G. in herb. sec. Clend.

1432

*Hab.* in foliis *Geranii caroliniani*, quæ deformat, Baton Rouge Amer. bor. — Sori 75-125  $\mu$ . diam.; sporangia 20-37  $\mu$ . diam.; sporæ perdurantes 35-150  $\mu$ . diam. atro-brunnæ.

**WORONINA** Cornu. — Syll. VII, p. 301.

1. *Woronina elegans* (Perronc.) Fisch. Phycom. p. 66, *Chytridium elegans* Perr. in Centralbl. f. Bakter. 1888, p. 295, nec Nowak.

1433

*Hab.* in *Philodina roseola* ex Rotatoriaceis, in thermis Vignano et Valdieri Pedemontii.

**MICROMYCES** Dangeard, in Botaniste I, 1888, p. 55, Fisch. Phyc. p. 71 (Etym. *micros* parvus et *myces*).

1. *Micromyces Zygonii* Dang. l. c. p. 52, t. 2, 1-10, 1891, t. 17, f. 2-8, Fisch. l. c.

1434

*Hab.* in *Zygoniis* in aquis Gallia.

**ROZELLA** Cornu. — Syll. VII, p. 300.

1. *Rozella simulans* Fischer, Jahrb. f. Wiss. Bot. 1882, p. 50, Phycom. p. 71.

1435

*Hab.* in *Achlyia polyandra*, *A. racemosa* in Germania.



**LAGENIDIUM** Schenk. — Syll. VII, p. 278, IX, p. 348.

1. *Lagenidium Syncytiorum* Klebahn Schmarotz. Bremens p. 375. 1436

*Hab.* in *Ædogonio Boschii* in Bremen.

2. *Lagenidium gracile* Zopf in Nov. Act. Leop. 1884, p. 158, Fisch. 1437  
Phycom. p. 82.

*Hab.* in *zygosporis Spirogyræ speciei*, in Germania.

**RHIZOPHIDIUM** Schenk. — Syll. VII, p. 298, IX, p. 362.

1. *Rhizophidium Haynaldii* (Schaarschm.) Fisch. Phycom. p. 92, *Phly-* 1438  
*ctidium Haynaldii* Schaarschm. in *Hedwigia* 1883, p. 125.

*Hab.* in *Ulotriche zonata* in Germania.

2. *Rhizophidium Barkerianum* (Arch.) Fisch. Phycom. p. 103. 1439

*Hab.* in *Zygnematibus* in Germania et Britannia.

3. *Rhizophidium gibbosum* (Zopf) Fisch. Phycom. p. 102. 1440

*Hab.* in *Cylindrocysta*, *Phycastro*, *Penio ex Desmidiaceis* in Germania.

4. *Rhizophidium algæcolum* Zopf in Nov. Act. Leop. 1884, p. 204, 1441  
(nomen) Fisch. Phycom. p. 106.

*Hab.* in *Spirogyris* in Germania.

5. *Rhizophidium agile* (Zopf) Fisch. Phycom. p. 96. 1442

*Hab.* in *Chroococco turgido* in Germania.

6. *Rhizophidium echinatum* (Dang.) Fisch. Phycom. p. 96. 1443

*Hab.* in *Glenodinio cincto* in Gallia et Germania.

7. *Rhizophidium? irregulare* (Wild.) Fisch. Phycom. p. 105, *Chytri-* 1444  
*dium* Wildeman Ann. Soc. belg. micr. 1890, p. 21.

*Hab.* in *Diatomea quadam* in Belgio.

**RHIZIDIUM** A. Braun. — Syll. VII, p. 269, IX, p. 358.

1. *Rhizidium catenatum* Dang. in *Botaniste* 1888, p. 65, t. 3, f. 24, 1445  
Fisch. Phycom. p. 109.

*Hab.* in *Nitella tenuissima* in Gallia et Germania.

2. *Rhizidium Westii* Mass. Brit. Fungi 1891, p. 155, f. 36-37. 1446

*Hab.* gregatim in *Spirogyra nitida* et *Cladophora glomerata* in Germania.

3. *Rhizidium Euglenæ* Dang. in Ann. Scienc. Nat. 1886, p. 301, t. 13, 1447  
f. 11-19, Fisch. Phycom. p. 108.

*Hab.* in *Euglena* in Gallia et Germania.

4. *Rhizidium vernale* Zopf in Nov. Act. Leop. 1884, pag. 234, t. 21, 1448  
f. 12-20, Fisch. Phycom. p. 108.

*Hab.* in *Chlamydomonade* in Germania.

**SEPTOCARPUS** Zopf in Nov. Act. Leop. LII, (1888) p. 348, Fisch. Phycom. p. 112 (Ety. *septum* et *carpos* fructus).

1. **Septocarpus corynephorus** Zopf l. c. p. 348, t. 20, f. 21-28. 1449  
*Hab.* in speciebus Pinnulariæ in Germania.

**ACHLYELLA** Lagerh. in Hedw. 1890, p. 143, Fisch. Phycom. p. 112 (Ety. demin. ab *Achlya*).

1. **Achlyella Flahaultii** Lagerh. l. c. t. 2, f. 5-7. 1450  
*Hab.* in polline Typhæ in Germania.

**HARPOCHYTRIUM** Lagerh. in Hedw. 1890, p. 142, Fisch. Phycom. p. 114. (Ety. *harpe* falx et *Chytrium*, ob sporangia falcata).

2. **Harpochytrium Hyalothecæ** Lagerh. l. c. t. 2, f. 1-4. 1451  
*Hab.* in Hyalotheca dissilienti in Suecia.

**ENTOPHLYCTIS** Fischer Phycom. Deutschl. 1892, p. 114 (Ety. *entos* intus et *phlyctis* bulla).

1. **Entophlyctis bulligera** (Zopf) Fisch. Phycom. p. 116, *Rhizidium* 1452  
Zopf Nov. Act. Leop. 1884, p. 195.

*Hab.* in cellulis vegetativis et copulantibus Spirogyræ crassæ in Germania.

2. **Entophlyctis Vaucheriæ** (Fisch.) Fischer Phycom. p. 117. 1453  
*Hab.* in Vaucheria in Germania.

**RHIZOPHLYCTIS** Fischer Phycom. 1892, p. 119 (Ety. *rhiza* radix et *phlyctis* bulla, pustula).

1. **Rhizophlyctis rosea** (De Bary et Woron.) Fisch. Phycom. p. 122, 1454  
*Chytridium* De Bary et Woron.

*Hab.* ad terram, quam rubrifcat, ollarum in hortis Germaniæ et ad sporas Equiseti in Gallia.

2. **Rhizophlyctis Tolypotrichis** Zuk. Mycol. Mittheil. p. 20, t. XII, 1455  
f. 13.

*Hab.* in Tolypotriche lanata, Vindobonæ Austriæ.

3. **Rhizophlyctis Braunii** (Zopf) Fisch. Phycom. pag. 120, *Rhizidium* 1456  
Zopf Nova Act. Leopold. 1888, p. 349.

*Hab.* inter Bacillariaceas in Germania.

4. **Rhizophlyctis vorax** (Strasb.) Fisch. Phycom. p. 229. *Chytridium* 1457  
*vorax* Strasburger Wirk. des Lichtes 1878, p. 13.

*Hab.* ad Chlamydoccum pluviale in Germania.

**CHYTRIDIUM** A. Braun — Syll. VII, p. 304, IX, p. 358.

1458

1. **Chytridium Lagenaria** Schenk in Verh. med. phys. Ges. Winzl. 1858, Contr. Zell. f. 11-15, Fischer Phycom. p. 128.

*Hab.* in *Nitella flexilis* in Germania, ad *Vaucheriam* in Gallia.

2. **Chytridium Mesocarpi** Fisch in Sitzungsber. phys. med. soc. Erl. 1884, Fischer Phycom. p. 156.

*Hab.* in *Mesocarpo e Conjugatis* in Germania et Gallia.

**CLADOCHYTRIUM** Now. — Syll. VII, p. 295.

1. **Cladochytrium Kriegerianum** (Magn.) Fisch. Phyc. 138.

1460

*Hab.* in omnibus partibus *Cari Carvi* in Germania.

2. **Cladochytrium Iridis** De Bary Morph. Pilz. p. 149, Fisch. Phyc. 139.

1561

*Hab.* in foliis *Iridis Pseudo-acori* in Germania.

3. **Cladochytrium Graminis** Büsgen in Fisch. Phyc. 139.

1462

*Hab.* in radicibus graminum in Germania.

4. **Cladochytrium Flammulæ** Büsg. in Cohn Beitr. Biol. 1887, p. 269, fig. 21-22 et Centralb. 1887, IV, p. 98, Fisch. Phyc. p. 138.

1463

*Hab.* in foliis *Ranunculi Flammulæ* in Germania.

5. **Cladochytrium Sparganii-ramosi** Büsg. l. c. Fisch. Phyc. p. 139.

1464

*Hab.* in *Sparganio ramoso* in Germania.

6. **Cladochytrium polystomum** Zopf Nov. Act. Leop. 1883, pag. 234, Fisch. Phyc. 135.

1465

*Hab.* in epidermide *Trianeæ bogotensis cultæ*, in Germania.

7. **Cladochytrium Butomi** Büsgen in Fisch. Phyc. 136, *Physoderma Butomi* Schroet, an Karst. — Syll. IX, p. 363.

1466

*Hab.* in foliis *Butomi umbellati* in Germania.

**PHYSODERMA** Wallr. — Syll. VII, p. 317, IX, p. 363.

1. **Physoderma Hippuridis** Rostr. Till. Grönl. Svamp. p. 631.

1467

*Hab.* in foliis et caulibus *Hippuridis vulgaris* in Groenlandia.

2. **Physoderma Allii** Krieger in All. et Schnabl. Fung. Bav. n. 202.

1468

*Hab.* in foliis *Allii*, in Germania.

**MASTIGOCHYTRIUM** Lag. Hedw. 1892, pag. 185-188 (Etym. *mastix* flagellum et *chytra* olla). — Zoosporangia extramatricalia, sessilia, unicellularia, basi filamentis mycelicis, radiceformibus, ramosis, matrice immersis et pilis validis, lateralibus instructa. Zoospore per ostiola expulsæ. Sporangia perdurantia?

1. **Mastigochytrium Saccardiæ** Lag. l. c. p. 188, t. XVIII. 1469  
*Hab.* in peritheciis Saccardiæ Durantæ pr. Quito Æquatoria. — Zoosporangia globosa 16-38  $\mu$ . diam., levia, hyalina, papillata, pilis 1-7, ostiolis 1-4 circularibus 4  $\mu$ . diam.

**RHODOCHYTRIUM** Lag. Bot. Zeit. 1893, p. 42-52, t. I (Etym. *rhodon* rosa, ruber et *chytra* olla). — Inter Chytridiaceas et Protococcaceas ambiguum genus.

1. **Rhodochytrium Spilanthis** Lag. l. c. p. 44. 1470  
*Hab.* in Spilanthe quadam in Æquatoriæ pluribus locis.

**NEPHROMYCES** Giard. in Fisch. Phyc. p. 145 (*nephros* renes et *myces* ob habitatione in renibus).

1. **Nephromyces Molgularum** Giard. in Fisch. l. c. p. 146. 1471  
*Hab.* in renibus Molgulæ socialis in Gallia.  
 2. **Nephromyces Sorokini** Giard in Fisch. l. c. 146. 1472  
*Hab.* in renibus Lithonephyræ eugyrandæ in Gallia.  
 3. **Nephromyces Roscovitanus** Giard. in Fisch. l. c. 146. 1473  
*Hab.* in renibus Anurellæ Roscovitanæ in Gallia.

*Fam. 5. Protomycetaceæ De Bary.*

**PROTOMYCES** Ung. — Syll. VII, p. 319, IX, p. 363.

1. **Protomyces microsporus** Passer. F. nov. ser. V, n. 1. — Acer- 1474  
 vulis parvulis in macula albo-exarida aggregatis; sporis fuliginis, levibus, subglobosis, 5-7  $\mu$ . diametro.  
*Hab.* in foliis Jasmini Sambac, Parma Ital. bor.  
 2. **Protomyces andinus** Pat. Bull. Soc. Myc. 1892, p. 124. 1475  
*Hab.* in caulibus Bidentis andicolæ et Jægeriæ, Quito et in valle Chillo Æquatoriæ. — Sporæ maximæ 45-75  $\mu$ . diam., membrana 12-15  $\mu$ . diam hyalino.  
 3. **Protomyces purpureo-tingens** Massee Brit. Fungi 1891, pag. 164, 1476  
 f. 72-73.  
*Hab.* in cotyledonibus folisque juvenilibus quæ rubro-maculantur Helianthi et Smilacinæ in Britannia. — Sporæ 25-28  $\mu$ . diam., episporio læte brunneo; bistratoso, minute verrucoso.

## PYRENOMYCETEÆ Fr. emend.

Syll. I, p. 1, IX, p. 364 \*).

*Fam. 1. Perisporiaceæ Fr.*

*Subfam. 1. Erysipheæ Lév.*

**UNCINULA** Lév. — Syll. I, p. 6, IX, p. 366.

1. *Uncinula columbiana* Selb. The Ohio Erysipheæ p. 9. — *Amphi-* 1477  
*gena*; mycelio modice copioso, cæspitoso, arachnoideo; peritheciis magnis, sæpius pallide coloratis, sparsis, depressis, 130-180  $\mu$ . lat., 65-90  $\mu$ . alt., cellulis contextus 10-15  $\mu$ . lat.; appendicibus numerosissimis (50-70 v. ultra), sursum uncinatis, hyalinis, 130-185  $\mu$ . long., levibus, raro apice inflatis; ascis paucis (4-6 v. ultra) late ovoideis, pedicellatis, 50-70  $\approx$  35-45, plerumque 5-sporis; sporidiis ellipsoideis, circ. 25  $\times$  12.

*Hab.* in foliis *Uncinulæ Columbianæ*, Columbus Amer. bor. — *U. circinata* affinis.

**MICROSPHÆRA** Lév. — Syll. I, p. 10, et IX, p. 368.

1. *Microsphæra Guarinoni* Br. et Cav. Fung. parass. n. 172. — *My-* 1478  
*celio* hypophyllo, arachnoideo, effuso, persistenti; peritheciis globoso-depressis, sparsis; appendicibus 8-10 gracilibus, hyalinis, perithecio octuplo longioribus sursum terque quaterque dichotomis, ramulis patentibus, extremis recurvis, ascis 8-10, ellipticis v. obovatis apice obtusis, octosporis, breviter pedicellatis; sporidiis cylindræis v. ellipsoideis utrinque rotundatis hyalinis 24-12-14.

*Hab.* in foliis *Cytisi Laburni*, Varallo Ital. bor. (GUARINONI).

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\*) Quod ad *Pyrenomyceteas* et *Sphæropsideas* attinet, cfr. Grevillea XX, p. 82-84 et Starbäck Studier i Elias Fries Svampherbarium. Stokh. 1894, ubi plurimæ species vetustæ, præsertim Friesianæ et Schweinitzianæ jam imperfecte cognitæ, ad ipsa exemplaria originalia subtiliore analysi perscrutantur et ad genera recentiora, quantum fieri potest, ducuntur. Hic tantum formas addendas v. funditus reformandas referre putavi.

— Affinis *M. divaricatæ* et *M. Evonymi* sed appendices multo longiores et numerus sporidiorum in quoque asco diversus.

2. **Microsphæra calocladophora** Atkinson Erys. from Carol., p. 13, 1479 cum fig. *M. densissima* Ell. et Mart. Journ. Myc. I, p. 101, nec Schw.

*Hab.* in foliis *Quercus aquaticæ* Columbia. — Perithecia 100-140  $\mu$ . diam.; asci 65-80  $\approx$  35-40; sporidia 20-25  $\mu$ . long. sena-octona in quoque asco.

3. **Microsphæra Umbilici** W. Kom. in Jaczews. Fungi Rossiaë exs. 1480 I, n. 15.

*Hab.* in foliis *Umbilici* in Russia.

**ERYSIPHE** Hedw. — Syll. I, p. 15, IX, p. 370.

1. **Erysiphe lichenoides** Trab. et Sacc. sp. nova. — Caulicola mycelio denso lichenoides persistenti candido, peritheciis globoso-depressis sparsis, appendiculis copiosissimis ramosis hyalinis mycelio intermixtis; ascis ellipsoideis, 36-38  $\approx$  15, in quoque perithecio 20, bisporis; sporidiis ovoideo-ellipsoideis 36-38  $\approx$  15, hyalinis granulosis.

*Hab.* in caulibus vivis *Fœniculi vulgaris*, quos obducit, pr. Medea Algeriae. — Affinis *E. tauricæ*, a qua mycelio denso lichenoides, appendiculis copiosissimis recedit.

**SACCARDIA** Cooke. — Syll. I, p. 24, IX, p. 371.

1. **Saccardia Tunæ** (Spreng.) Starb. Stud. Fries' Svampherb. p. I, 1482 fig. 1 a-f. *Sphæria Tunæ* Spr. Syll. II, p. 422, *Diplothea* Starb. Sphær. imperf. cognitæ p. 30. — Perithecia 150-200  $\mu$ . d.; asci 50-60  $\approx$  30-40; sporidia 3-septato-muriformia, chlorino-luteola, 30-32  $\approx$  10-12.

2. **Saccardia Durantæ** Pat. Bull. Soc. Myc. 1891, p. 173, t. XII, f. II. 1483

*Hab.* in pag. inf. foliorum *Durantæ* pr. Quito Æquatoriae. — Perithecia 190  $\approx$  90; asci 20-25  $\mu$  diam.; sporidia hyalina, triseptato-muriformia, 12-14  $\approx$  4-5.

3. **Saccardia atro-viridula** Rehm, Hedw. 1892, p. 312.

*Hab.* ad folia *Baccharidis oblongifoliæ* pr. Quito Æquatoriae (LAGERHEIM). — Perithecia 50-150  $\mu$ . diam.; asci 30-36 diam.; sporidia 18  $\approx$  7-8, hyalina, 3-septato-muriformia.

*Subfam. 2. Perisporiæ Sacc.***EUROTIIUM** Link. — Syll. I, p. 25, IX, p. 271.

1. **Eurotium echinulatum** Delacr. Bull. Soc. Myc. 1893, p. 266, t. XIV, 1485 fig. 3.

*Hab.* in gelatina saccharata in Laboratorio, Parisiis Galliæ. — Perithecia 140  $\mu$ . diam. sulphurea. Asci 15–20  $\mu$ . diam.; sporidia 11  $\mu$ . diam., 7  $\mu$ . crass.

**SAMAROSPORA** Rostr. in Beiheft. Bot. Centr. 1893, p. 3 (Etym. *samara* et *spora*). — Perithecia subsuperficialia, membranacea, majuscula, atro-brunnea, astoma; asci globosi octospori; sporidia cylindracea, hyalina, continua, appendice inæquali membranacea, samariformi aucta.

1. **Samarospora Potamogetonis** Rost. l. c. 1486

*Hab.* in foliis Potamogetonis natantis in Dania. — Contextus perithecii olivaceo-brunneus; asci 20  $\mu$ . diam.; sporidia 12–14  $\approx$  5, bi-quadriguttata, alato-appendiculata.

**CHÆTOTHECA** Zuk. in Berichte d. deutsch. bot. Gesell. 1890, p. 296 (Etym. *chæte* seta et *thece* pro perithecio). — Perithecia hemisphærica, depressa, membranaceo-rigidula, fere carbonacea, astoma, setis longis rigidulis cuspidatis nigricantibus conspersa; asci globoso-piriformes, octospori, hyphis brevibus ramosis suffulti; sporidia conglobata, lentiformia, levia, diaphane nigricantia.

1. **Chætotheca fragilis** Zuk. l. c. t. XVII, f. 11–13. — Peritheciis 1487  
generis 0,3–0,5 mm. lat., dimidium altis, nigris, fragilibus, setis vix septatis, simplicibus, acutis perithecio longioribus, nigricantibus, apice subhyalinis vestitis; ascis late piriformibus, breve stipitatis, 12–13  $\approx$  11–13, fugacibus; sporidiis 5,5  $\approx$  4 ex hyalino, nigricantibus.

*Hab.* in bilis concretionem uda, sub campana vitrea culta, Wien Austriæ.

**ASTERULA** Sacc. — Syll. I, p. 47, IX, p. 375.

1. **Asterula Tracyi** Peck 47 Rep. p. 26. 148

*Hab.* in foliis vivis languidisve *Spermacoces parvifloræ*, Biloxi Mi-sis. Amer. bor. (TRACY). — Perithecia 110  $\mu$ . diam.; asci 30–35  $\approx$  8–10; sporidia 7–10  $\approx$  3–4, bi-quattuor-nucleata, hyalina.



**ASTERINA** Lév. — Syll. I, p. 39, et IX, p. 379. Cfr. quoad affinitates generis, notam loco mox cit.

1. **Asterina radians** Ell. Descrip. new spec. in Journ. of Mycol. 1893, 1489 p. 276.

*Hab.* in foliis vivis Capparidis cynophallophoræ, Florida Amer. bor. — Perithecia hemisphærica 0,2 mm. diam.; asci 35 = 20; sporidia 12-15 = 5-5,5, 1-septata, flavida dein brunnea.

2. **Asterina Tacsoniæ** Pat. Bull. Soc. Myc. 1893, p. 147. 1490

*Hab.* in foliis Tacsoniæ, Pululahua Æquatoriæ (LAGERHEIM). — Perithecia dimidiato-scutata 200-300  $\mu$ . lat.; asci 30 = 25; sporidia 22 = 9, 1-septata, brunnea.

3. **Asterina Winteriana** Pazschke Hedw. 1892, p. 104. 1491

*Hab.* in foliis Rolliniæ in Brasilia (ULE). — Perithecia 225-300  $\mu$ . diam. depressa; asci 60-70 = 43-45; sporidia 27-32 = 14-16, 1-septata, fusca.

4. **Asterina brasiliensis** Wint. in Hedw. 1892, p. 101. 1492

*Hab.* ad folia Calliandræ, in Brasilia (ULE). — Perithecia scutiformia, 200-250  $\mu$ . diam.; asci 80-100 = 20-23; sporidia 21-24 = 10-11, 1-septata.

5. **Asterina hoveæfolia** Cooke et Mass. in Grev. V, 22, p. 36. 1493

*Hab.* in foliis Hoveæ longifoliæ, Queensland Australia (BAILEY). — Perithecia scutellata, circinata; asci piriformes; sporidia 16 = 7 1-septata brunnea.

6. **Asterina sphærelloides** Speg. Fl. Guar. nonn. n. 123. 1494

*Hab.* ad folia coriacea Illicis? pr. Luque, Brasilia. — Perithecia hemisphærico-prominula 120-130  $\mu$ . diam.; asci 30-35 = 15; sporidia 20-24 = 10-12, 1-septata, fuliginea.

7. **Asterina crustosa** B. et Cooke Grev. XXI, p. 76. 1495

*Hab.* in foliis Eugeniæ, Ceylon (THWAITES). — Perithecia applanata; asci saccati 8-spori; sporidia 35 = 12-14, 1-septata, fusca.

8. **Asterina Uleana** Pazschke Hedw. 1892, p. 104. 1496

*Hab.* in foliis Myrtacearum in Brasilia (ULE). — Perithecia discoidea 400-450  $\mu$ . diam.; asci 85-90 = 35-38; sporidia 35-38 = 14-16, 1-septata, fusca.

9. **Asterina multilobata** Wint. Hedw. 1887, p. 25. 1497

*Hab.* in foliis vivis Malpighiaceæ, in Brasilia (ULE). — Perithecia depressa 100-160  $\mu$ . diam.; asci 37-48  $\mu$ . diam.; sporidia 25-28 = 12,5 1-septata, fusca, aculeolata.

10. **Asterina irradians** Pat. Bull. Soc. Myc. 1891, p. 172. 1498

*Hab.* in pag. sup. foliorum Compositæ ejusdam pr. Quito,

Æquatoriæ (LAGERHEIM). — *Perithecia globosa* 130-200  $\mu$ . diam. poro pertusa; asci 50-60  $\approx$  15-18; sporidia 16-18  $\approx$  6-7, chlorino-fuliginea.

11. **Asterina Leemingii** E. et E. New sp. north Amer. Fung. in Pro. 1490  
ceed. Acad. S. N. Philad. 1893, p. 128.

*Hab.* in foliis vivis *Galacis aphyllæ*, Marion Va. Amer. bor. (HELENA LEEMING). — *Perithecia depresso-globosa*, 150  $\mu$ . diam. papillata; asci 35-40  $\approx$  20-24; sporidia 18-22  $\approx$  5-6, 1-septata e flavido hyalina. An *Asterella*?

12. **Asterina Gaultheriæ** Curtis, Ellis Am. Pyr. p. 42. 1500

*Hab.* in foliis vivis *Gaultheriæ procumbentis*, Amer. bor. — *Perithecia* 170-250  $\mu$ . diam.; asci 22-25  $\approx$  13-16; sporidia 1-septata, hyalina, 9  $\approx$  3.

13. **Asterina crotonicola** Pat. Bull. Soc. Myc. 1892, p. 127. 1501

*Hab.* in foliis vivis *Crotonis* pr. Banos Æquoriæ. — *Perithecia* applanata, 130-160  $\mu$ . diam.; asci globosi, 8-spori; sporidia 32  $\approx$  15 1-septata, brunnea.

14. **Asterina Palmarum** (Kunze) Gaill. Le genre Mel. p. 116, t. XXIV, 1502  
fig. 1, *Myxothecium* K. et Fr., Syll. I, p. 71.

*Hab.* in utraque pag. *Palmæ* cujusdam, Surinam (WEIGELT). — *Perithecia* globulosa, astoma; asci 130  $\approx$  60, octospori; sporidia 1-septata, constricta, fuliginea, 65-75  $\approx$  20-22.

15. **Asterina laxa** Wint. in Hedw. 1892, p. 102. 1503

*Hab.* ad folia fruticis ignoti in Brasilia (ULE). — *Perithecia* depresso-hemisphærica, 80-120  $\mu$ . diam.; asci 43-48  $\approx$  23-30; sporidia 22-23  $\approx$  9-10, 1-septata, fuscidula.

16. **Asterina stricta** Wint. in Hedw. 1892, p. 103. 1504

*Hab.* ad folia fruticis ignoti in Brasilia (ULE). — *Perithecia* discoida 225-300  $\mu$ . diam.; asci 60-70  $\mu$ . diam.; sporidia 38  $\approx$  22 1-septata, fusca.

17. **Asterina paraphysata** Wint. Hedw. 1892, p. 103. 1505

*Hab.* ad folia fruticis ignoti in Brasilia (ULE). — *Perithecia* applanata 250-300  $\mu$ . diam.; asci 75  $\approx$  50; sporidia 36  $\approx$  13, 1-septata, fusca.

**ASTERELLA** Sacc. — Syll. I, p. 42, et IX, p. 393.

1. **Asterella flexuosa** Wint. Hedw. 1892, p. 101 (*Asterina*). 1506

*Hab.* ad folia *Calliandræ* in Brasilia (ULE). — *Perithecia* hemisphærica 230-300  $\mu$ . diam.; asci 24-27  $\approx$  14-16; sporidia 11-14  $\approx$  3,5 1-septata, hyalina.

2. **Asterella Conyzæ** Pat. Bull. Soc. Myc. 1892, p. 127. 1507

- Hab.* in pag. sup. foliorum *Conyza*, Milegalli *Æquatoriae*. — *Perithecia* globoso-collapsa 115-150  $\mu$ . diam.; asci 35-40  $\approx$  6-8; sporidia 8-10  $\approx$  3-4, 1-septata, hyalina.
3. *Asterella penicillata* Pat. Rev. Myc. 1891, p. 138 (*Asterina*). 1508  
*Hab.* in foliis coriaceis in Brasilia (GLAZIOU). — *Perithecia* depressa 80-100  $\mu$ . diam.; asci 50  $\approx$  12-15; sporidia 34  $\approx$  4, 1-septata, hyalina.
4. *Asterella Rehmii* P. Henn. F. *Æthiop.* I, p. 117, t. V, f. 16. 1509  
*Hab.* in foliis vivis *Aloes maculatæ* et *A. abyssinicae*, in colonia *Erythræa*. — *Perithecia* punctiformia, elevata; asci 24-36  $\approx$  20-32; sporidia 17-22  $\approx$  7-10, 1-septata, subhyalina,
5. *Asterella Schweinfurthii* P. Henn. F. *Æthiop.* I, p. 118. 1510  
*Hab.* in foliis vivis *Dracænæ Ombetis* in colonia *Erythræa*. — *Perith.* hemisphærica; asci 23-39  $\approx$  20-27; sporidia 10-15  $\approx$  5-7 1-septata, hyalina.
6. *Asterella graminicola* E. et E. New spec. North Amer. Fung. in Proceed. Acad. N. Sc. Philad, 1893, p. 128 (*Asterina*). 1511  
*Hab.* in foliis subviviis *Oryzopsidis asperifoliæ*, Lansing Mic. Amer. bor. (Hicks). — *Perithecia* discoidea 150  $\mu$ . diam.; asci 22-30  $\approx$  12-20; sporidia 7-14  $\approx$  2,5-3,5 hyalina, 1-septata.

**MARCHALIELLA** Wint. in Bomm. et Rouss. Contr. Myc. Belg. IV, p. 243 (Etym. a cl. mycologo EL. MARCHAL bruxellensi). — *Perithecia* superficialia, glabra, tandem irregulariter dehiscencia, subiculo obsoleto; asci ovoidei, 8-spori, sporidia didyma, brunnea. Ab affini gen. *Zopfia* peritheciis glabris, sporidiis didymis, exappendiculatis recedit.

1. *Marchaliella zopfelloides* Bomm. et Rouss, l. c. 1512  
*Hab.* in assere abietino, diu fimo imbuto in horto bot. Bruxelles Belgii. — *Perithecia* nigra; asci 25  $\approx$  15; sporidia 6-9  $\approx$  4,5, constricta, echinulata.

**DIMEROSPORIUM** Fuck. — Syll. I, p. 51, IX, p. 401.

1. *Dimerosporium Passifloræ* Pat. Bull. Soc. Myc. 1892, p. 128. 1513  
*Hab.* in pag. sup. foliorum *Passifloræ*, Milegalli *Æquatoriae* (LAGERHEIM). — *Perithecia* globosa, 150-200  $\mu$ . diam.; asci 60-80  $\approx$  10-12; sporidia tereti-ovoidea, 15  $\approx$  4-5, uniseptata, chlorinofulginea.
2. *Dimerosporium Monninæ* Pat. Bull. Soc. Myc. 1892, p. 128. 1514  
*Hab.* in foliis vivis *Monninæ* pr. Quito *Æquatoriae*. — *Pe-*

- rithecia globosa 260  $\mu$ . diam.; asci 80-100  $\approx$  30-40; sporidia 25  $\approx$  12, 1-septato, flavo-brunnea.
3. **Dimerosporium Urbanianum** P. Henn. Hedw. 1894, p. 231. 1515  
*Hab.* in foliis Cedrelæ odoratæ(?) Portorico (SINTENIS). — Perithecia atro-sanguinea, globosa, 180-250  $\mu$ . diam.; asci 90-150 30-50, octospori; sporidia 1-septata, flava, 35-45  $\approx$  11-14.
4. **Dimerosporium samoënsæ** P. Henn. Hedw. 1894, p. 232. 1516  
*Hab.* in foliis vivis Menispermaceæ cujusdam, Samoa (WEBER). — Perithecia subglobosa, 60-70  $\mu$ . diam.; asci 24-30  $\approx$  21-26, octospori; sporidia ovoidea, 1-septata, 10-16  $\approx$  6-9.
5. **Dimerosporium Richardi** (Thüm.) Sacc. *Capnodium Richardi* Thüm. 1517  
 Rev. Myc. 1879, p. 10.  
*Hab.* in foliis vivis Sorindejæ madagascariensis in insula Madagascar (M. RICHARD). — Perithecia globosa, carnosula, fusca; asci octospori, elliptici, 20  $\approx$  10; sporidia 6-9  $\approx$  4, uniseptata, fusca.
6. **Dimerosporium ilicinum** Cooke Grev. XXI, p. 76. 1518  
*Hab.* in foliis Ilicis myrtifolii in Amer. boreali (RAVENEL). — Perithecia semiglobosa 80-120  $\mu$ . diam.; asci piriformes; sporidia 18  $\approx$  9, 1-septata, hyalina (immatura).
7. **Dimerosporium parvulum** Cooke Grev. XX, pag. 5. — Peritheciis 1519  
 minutis, subglobosis, membranaceis, mycelio radioso, brunneo, maculis inæqualibus nigris insidentibus; ascis globosis, basi apiculatis; sporidiis ellipticis, uniseptatis, constrictis, hyalinis 11-20  $\approx$  8 (antandem coloratis?),  
*Hab.* in foliis vivis Tremæ asperæ, Zandina Australiæ (BAILEY).
8. **Dimerosporium Barnadesiæ** Pat. Bull. Soc. Myc. 1893, p. 148. 1520  
*Hab.* in foliis Barnadesiæ spinosæ, Pululahua Æquatoriæ (LAGERHEIM). — Perithecia globosa, 100  $\mu$ . diam.; asci globosi, 8-spori; sporidia 32  $\approx$  15, constricto-1-septata, fuliginea.
9. **Dimerosporium spectabile** Pat. Bull. Soc. Myc. 1893, p. 148. 1521  
*Hab.* in pag. sup. foliorum Baccharidis oblongifoliæ, Rio Machangara Æquatoriæ. — Perithecia globosa, 150  $\mu$ . diam.; asci 50  $\approx$  40; sporidia 22-25  $\approx$  10-12, 1-septata, pallide fuliginea.
10. **Dimerosporium moniliferum** Pat. Bull. Soc. Myc. 1892, pag. 128, 1522  
 t. XII, fig. 1.  
*Hab.* in foliis vivis Gynoxidis laurifoliæ, Pichincha Æquatoriæ. — Perithecia 150  $\mu$ . diam., globosa; asci 70  $\approx$  20; sporidia 20  $\approx$  10-11, didyma, fuliginea.

11. *Dimerosporium Galactis* E. et E. New Fung., Proceed. Acad. N. 1523  
S. Philad. p. 441.

*Hab* in foliis vivis *Galactis aphyllæ*, Marion Va. Amer. bor. — Perithecia ovoidea, 65-80  $\mu$ . diam.; asci 30-40  $\approx$  7-8; sporidia 10-12  $\approx$  3-3,5, flavida, 1-septata.

12. *Dimerosporium Labiatarum* Pat. Bull. Boiss. 1895, p. 66. 1524

*Hab.* in pag. sup. foliorum *Bistropogonis* et aliarum *Labiatarum*, San Jorge et Pullulahua *Æquatoris*. — Plagæ mycelicæ atræ 1-2 mm. diam., perithecia globosa 150-180  $\mu$ . diam.; asci 50  $\approx$  12-15; sporidia 12-13  $\approx$  3-4, constricto 1-septata, fuliginea.

13. *Dimerosporium superbum* Speg. Fl. Guar. nonn. p. 31, n. 84. 1525

*Hab.* in foliis vivis *Crotonis*? *Caa-guazú* *Brasilis*. — Perithecia globoso-hemisphærica 150-200  $\mu$ . diam.; asci 70-80  $\approx$  12-14; sporidia 16-18  $\approx$  7-10, ex hyalino chlorina, 1-septata (an tandem 3-septata olivacea?).

14. *Dimerosporium Acokantheræ* P. Henn. F. *Æthiop.* I, p. 117. 1526

*Hab.* in foliis vivis *Acokantheræ Schimperii* pr. *Saganeiti* col. *Erythrææ*. — Perithecia globoso-pulvinata; asci 80  $\approx$  36-48; sporidia 20-32  $\approx$  10-14, hyalino-flavescentia.

15. *Dimerosporium echinatum* E. et E. New Californ. Fung. in *Erythraea* p. 145. 1527

*Hab.* in foliis vivis *Quercus chrysolepidis* in California. Perithecia ovoidea, 200-300  $\mu$ . diam.; asci 50-55  $\approx$  15; sporidia 12-15  $\approx$  6-7, 1-septata, flavida.

15. *Dimerosporium Gilgianum* P. Henn. Hedw. 1894, p. 232. 1528

*Hab.* in pag. inf. foliorum *Retinodendri laurifolii*, Birma (GRIFFITH, comm. Doct. GILG). — Perithecia subhemisphærica v. oblonga; asci 60-80  $\approx$  40-50; sporidia oblonga 1-septata, flavo-brunnea, 40-55  $\approx$  24-32.

16. *Dimerosporium aterrimum* Cooke et Wint. Grev. XX, p. 83. — 1529

*Epiphyllum*; maculis orbicularibus gregariis, aterrimis, velutinis, 5 mm. diam., filis flexuosis, plerumque simplicibus, opacis; peritheciis subglobosis vel irregularibus, astomis; ascis ovoideis; sporidiis arcte ellipsoideis (immaturis).

*Hab.* in foliis coriaceis, Manipur Indiæ (WATT).

17. *Dimerosporium secedens* Sacc. Hedw. 1893, p. 57, t. VI, f. 2. — 1530

Late effusum, pelliculosum, atro-piceum, facile secedens, capnodioioides; peritheciis dense gregariis, globosis, astomis, distincte laxeparenchymaticis, glabris, atro-nitidulis, 100  $\mu$ . diam.; hyphis filiformibus intertextis, irregulariter denticulato-ramulosis, subconti-

nuis, connexis, ramulis hypharum hinc inde crasse vesiculoso-inflatis; ascis obovatis, brevissime stipitatis,  $45 \approx 25-28$ , octosporis, paraphysatis; sporidiis subtristichis ovato-oblongis, constricto-1-septatis, olivaceo-fuliginis, guttulis,  $20-22 \approx 6-7$ .

*Hab.* in foliis subcoriaceis adhuc vivis plantæ arboreæ ejusdam, Stewart River, Queensland (S. JOHNSON). — A *Dim. Solani* Speg. differt quia late et inæqualiter effusum, secedens etc.

18. *Dimerosporium? ovoideum* Speg. Fl. Guar. nonn. p. 32, n. 82. 1531

*Hab.* ad folia Graminaceæ ejusdam, Caa-guazú Brasilæ. — Perithecia ovato-sublageniformia  $100-150 \mu$ . alta,  $50-120 \mu$ . cr.; asci  $50-60 \approx 16-20$ ; sporidia  $20-26 \approx 7-8$ , ex hyalino chlorina, 1-septata.

19. *Dimerosporium minutum* Pat. Bull. Boiss. 1895, p. 66. 1532

\* *Hab.* parasitice in *Microthyrio reptante*, Milegalli Æquatoriae. — Perithecia globulosa,  $130 \mu$ . diam. basi filamentosa; asci  $33-40 \approx 7$ ; sporidia  $10 \approx 3$ , brunnea, 1-septata.

**PARODIELLA** Speg. — Syll. I, p. 717, IX, p. 409.

1. *Parodiella Schimper* P. Henn. F. Æthiop. I, p. 119. 1533

*Hab.* in foliis vivis *Rhinchosia* elegantis et *Vignæ* pr. Gheleb col. Erythrææ. — Perithecia subhemisphærica  $100-180 \mu$ . diam.; asci  $25-33 \approx 18-25$ ; 4-8-spori; sporidia  $8-11 \approx 4-5$ , 1-septata, hyalino-flavidula.

2. *Parodiella Pseudopeziza* Pat. Bull. Boiss. 1895, p. 67. 1534

*Hab.* in foliis *Vacciniæ* ejusdam, San Jorge Æquatoriae. — Perithecia hypophylla, tereti-turbinata, infra attenuata, apice depressa,  $200-200 \mu$ . alt., parvæ pilosa; asci 4-spori,  $80-100 \approx 8-10$ ; sporidia  $16-18 \approx 6$ , inæqualiter 1-septata, brunnea.

**PERISPORIUM** Fr. — Syll. I, p. 55, IX, p. 412.

1. *Perisporium vulgare* Corda — Syll. I, p. 55. — var. *Scirpi* Karst. 1535  
Symb. Fenn. XXX, p. 74.

*Hab.* in calamis *Scirpi lacustris* in Fennia. — Perithecia  $0,3$  mm. diam.; asci  $125-140 \approx 18-19$ ; sporidia  $36-43 \approx 7-9$ ,

**MELIOLA** Fr. em. — Syll. I, p. 60, IX, p. 413 \*).

\*) Conferenda absoluta et perspicua generis monographia (*Le genre Meliola*, Paris 1892 et *Suppl.* in *Bull. Soc. Myc.* 1892, p. 176) a cl. A. GAILLARD elaborata et claris iconibus exornata. Ejusdem dispositionem hic sequutus sum.

## I. Asci ovoidei v. globulosi.

## A. Sporidia 2-septata.

(Meliola clavispora).

## B. Sporidia 3-septata.

(Meliola manca, Andromedæ, ganglifera, Niessleana, nidulans, lanosa, Wainioi, cladotricha, formosa, argentina, octospora, triseptata, pulveracea et sequentes).

## 1. Meliola Illicis Henn. Fung. bras. II, p. 523.

1536

Hab. in foliis vivis Illicis chamædrifoliæ in Brasilia (REGNELL). — Perithecia subglobosa, 150-200  $\mu$ . diam.; asci 60-70 = 30-40, bi-trispori; sporidia 3-septata, flavescenti-atra.

## 2. Meliola Guignardi Gaill. Bull. Soc. Myc. 1892, p. 176, t. XVI, f. 1. 1537

Hab. in pag. sup. foliorum coriaceorum arboris ignotæ, Canzacoto Æquatoriæ (LAGERHEIM). — Perithecia globosa, collabentia 460  $\mu$ . diam.; asci ovoidei 2-4-spori; sporidia 3-septata, fuliginea, 62-66 = 22-24.

## 3. Meliola Boni Gaill. Gen. Mel. p. 39, tab. II, fig. 5 et VIII, fig. 3. 1538

Hab. in pagina superiore foliorum ignotorum, Tonkin (BON). — Perithecia globulosa 180-200  $\mu$ . diam.; asci ellipsoidei, bispori; sporidia 3-septata, fusca, 51-54 = 20-22.

## 4. Meliola insignis Gaill. Gen. Mel. p. 44, tab. VI, f. 1 et IX, f. 2. 1539

Hab. in pag. sup. foliorum quorundam, Sumatra (FORBES). — Perithecia globosa, 150-200  $\mu$ . diam.; asci evanidi; sporidia 3-septata, fusca, 34-35 = 14-15.

## C. Sporidia 4-septata.

## a. Setæ nullæ.

(Meliola tomentosa, obesa, levis, Wrightii, cryptocarpa, glabra, Wintarii, tonkinensis, anastomosans, ampullifera, arachnoidea, subcrustacea, megalospora, crustacea, plebeja, Melastomacearum, conglomerata, calva, triloba, sororcula et sequentes).

## 5. Meliola Hendeloti Gaill. Gen. Mel. p. 49, tab. X, f. 2.

1540

Hab. ad folia Memecili cujusdam, Senegambia (HENDELOT). — Perithecia globosa 150-200  $\mu$ . diam.; asci subglobosi bispori; sporidia 4-septata, fusca, 46-50 = 20-22.

## 6. Meliola Rhois P. Henn. Fung. bras. II, p. 523.

1541

Hab. in foliis Rhois in Brasilia (SELLOW). — Perithecia subglobosa-applanata; asci ellipsoidei 2-4-spori 50-60 = 20-28; sporidia 4-septata, fusco-brunnea, 35-46 = 15-18.



7. *Meliola Lagerheimii* Gaill. in Hedw. 1891, p. 261. 1542

*Hab.* in pag. sup. foliorum vivorum *Ilicis scopulorum* pr. Quito *Æquatoriæ*. — *Perithecia* globoso-cupulata 250–360  $\mu$ . diam.; asci 80  $\approx$  30, longe stipitati, bispori; sporidia 4-septata, 60–62  $\approx$  17–29, fuliginea.

8. *Meliola obesula* Speg. Fl. Guar. nonn. p. 27, n. 75. 1543

*Hab.* in foliis vivis *Rutacæ*, Caa-guazú *Brasilæ*. — *Perithecia* globosa, 180–250  $\mu$ . diam.; asci 40–50  $\approx$  30–35; sporidia 4-septata, 40–42  $\approx$  20–22, compressa, fuliginea. *M. obesæ* peraffinis.

9. *Meliola penicilliformis* Gaill. Gen. Mel. p. 57, tab. VI, f. 2 et X, 1544  
fig. 6.

*Hab.* in utraque pagina foliorum *Psychotriæ*, in insula *Colares Amazonicæ* (POEPPIG). — *Perithecia* globoso-depressa; asci ovoidei, bispori; sporidia 4-septata, fusca, 37–40  $\approx$  15–18.

10. *Meliola asterinoides* Wint. — Syll. IX, pag. 423. — var. *major* 1545  
Gaill. Gen. Mel. p. 58, tab. X, f. 8.

*Hab.* in foliis *Rubiaceæ* cujusdam, Ogowé (THOLLON). — A typo differt sporidiis majoribus 42–46  $\approx$  20–22, magisque constrictis.

11. *Meliola echinata* Gaill. Gen. Mel. p. 61, tab. X, f. 10. 1546

*Hab.* in pag. inf. foliorum quorundam, Sumatra (FORBES). — *Perithecia* globulosa 150–200  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata fuscicula 50–52  $\approx$  12–20.

12. *Meliola longipoda* Gaill. Bull. Soc. Myc. 1892, p. 178, t. XIX, 1547  
fig. 2.

*Hab.* in utraque pag. foliorum *Tournefortiæ*, Banos *Æquatoriæ* (LAGERHEIM). — *Perithecia* collabentia, 200–250  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fusca, 41–51  $\approx$  20–22.

13. *Meliola obducens* Gaill. Bull. Soc. Myc. 1892, p. 179, tab. XIV, 1548  
fig. 3.

*Hab.* in pag. sup. foliorum *Buddleiæ* pr. Banos *Æquatoriæ*. (LAGERHEIM). — *Perithecia* globosa, 300–350  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, 45–50  $\approx$  18–20, dilute fuliginea.

14. *Meliola inermis* Kälchbr. — Syll. I, pag. 64. — var. *macilentia* 1549  
Wint., Gaill. Gen. Mel. p. 64.

*Hab.* in pag. sup. foliorum quorundam in ins. S. Thomæ (MOLLER). — A typo differt peritheciis minoribus; sporidiis (4-septatis) 33–35  $\approx$  14.

15. *Meliola Rimbachii* Pat. Bull. Boiss. 1895, p. 66. 1550

*Hab.* in foliis indeterminatis, Gualaquiza *Æquatoriæ* (RIMBACH). — *Perithecia* globosa 200–250  $\mu$ . diam., basi setulosa; sporidia 40–

45  $\approx$  16-18, constricta-4-septata, brunnea. — Affinis *M. inermi* et *M. sororculæ*.

b. Setæ peritheciales.

(*Meliola aciculosa*, *Molleriana*, *coronata* et sequentes).

16. *Meliola tortuosa* Wint. in Gaill. Gen. Mel. p. 67, tab. XXI, f. 2. 1551

*Hab.* in foliis Piperis cujusdam et Dicksoniæ, Santa Catharina et S.-Francisco Brasiliæ (ULE). — Perithecia globosa 160-190  $\mu$ . diam.; asci ovoidei bi-trispori, 62-70  $\approx$  22-32; sporidia 4-septata, fusca, 49-54  $\approx$  18.

17. *Meliola Martiniana* Gaill. Gen. Mel. p. 68, tab. XXII, f. 2. 1552

*Hab.* in utraque pagina petiolisque foliorum Perseæ palustris, Florida (MARTIN). — Perithecia globosa, collabentia, 300-320  $\mu$ . diam.; asci subglobosi, bispori; sporidia 4-septata, fusca, 66-68  $\approx$  20-28.

c. Setæ peritheciales et myceliales.

18. *Meliola Cyperi* Pat., Gaill. Gen. Mel. p. 70, cum icone. 1553

*Hab.* in utraque pag. foliorum Cyperi, Komba, Congo gall. (DYBOWSKI). — Perithecia globosa 110-250  $\mu$ . diam.; asci ellipsoidei, bispori; sporidia 4-septata, dilute fuliginea, 42-45  $\approx$  12-15. — Ad hanc sect. videtur quoque spectare *M. tenuis* B. et C.

d. Setæ myceliales simplices rectæ.

(*Meliola clavulata microtheca*, *microspora*, *amphitricha*, *corallina*, *Araliæ*, *Mitchellæ*, *Zig-zag*, *Desmodii*, *brasiliensis*, *delicatula*, *stenospora*, *Psidii*, *Spegazziniana*, *decidua*, *armata*, *velutina*, *spinigera* et sequentes).

19. *Meliola strychnicola* Gaill. Gen. Mel. p. 72, tab. XII, f. 4. 1554

*Hab.* in pag. sup. foliorum Strychni, Osika, Congo (DEBRAZA). — Perithecia globulosa 130-150  $\mu$ . diam.; asci ovoidei bispori; sporidia 4-septata, dilute fuliginea, 37-44  $\approx$  12-13.

20. *Meliola laxa* Gaill. Bull. Soc. Myc. 1892, p. 179, t. XIV, f. 4. 1555

*Hab.* in utraque pagina foliorum Myrtaceæ pr. Banos Æquatoriæ (LAGERHEIM). — Perithecia globosa, 150-170  $\mu$ . diam.; asci bispori; sporidia 4-septata, fuscidula, 40-44  $\approx$  14-15.

21. *Meliola parenchymatica* Gaill. Bull. Soc. Myc. 1892, p. 180, 1556

*Hab.* in utraque pag. foliorum Sapindaceæ Sao-Francisco Brasiliæ (ULE). — Perithecia globosa, 250-300  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fusca, 38-42  $\approx$  15-16.

22. *Meliola levipoda* Speg. Fl. Guar. nonn. n. 77, p. 28, Gaill. Bull. 1557  
Soc. Mycol. 1892, p. 181, t. XV, f. 1.

*Hab.* ad folia *Aspidospermæ Quebrachii*, Yaguaron Brasilæ. — Perithecia globoso-collapsa; asci 3-4-spori; sporidia 4-ptata, 44-48  $\approx$  16-20, fuliginea.

23. *Meliola Durantæ* Gaill. Bull. Soc. Myc. 1892, p. 181, t. XVI, f. 2. 1558

*Hab.* in utraque pagina foliorum, ramis fructibusque *Durantæ* pr. Quito Æquatoriæ. — Perithecia globoso-concava, 200-230  $\mu$ . diam.; asci ellipsoidei 2-4-spori; sporidia 4-septata, dilute fuliginea 45-48  $\approx$  15-16.

24. *Meliola Cookeana* Speg. — Syll. I, p. 65. — var. *major* Gaill. 1559  
Gen. Mel. p. 74.

*Hab.* in foliis *Dodoneæ*, Sao-Francisco Brasilæ (ULÉ). — A typo differt sporidiis 52  $\approx$  22, setis apice toruloideis. Ad *Meliolam amphitricham* Fr. sec. exempl. orig. spectat *Bryocladium maculans* Kunze, seu *Pisomyxa maculans* (Kunze) Sacc. Syll. IX, p. 374.

25. *Meliola horrida* Ell. et Ev. in Smith Cent. Amer. Pyrenom. Bull. 1560  
Univ. Iowa 1893, p. 396.

*Hab.* in foliis *Psidii* (*Guava*) San Carlos Amer. centr. — Perithecia ovoidea, 100  $\mu$ . diam.; asci 60-76  $\approx$  15-20, bispori; sporidia 4-septata, brunnea, 25-34  $\approx$  11-14.

26. *Meliola ambigua* Pat. et Gaill. — Syll. IX, p. 424. — var. *major* 1561  
Pat. et Gaill. Gen. Mel. p. 75, tab. XIII, f. 3.

*Hab.* in foliis vivis *Evolvuli*, Caracas in Venezuela. — A typo differt ascis 55  $\approx$  25 bi-trisporis; sporidiis 45-50  $\approx$  20.

27. *Meliola prætervisa* Gaill. Gen. Mel. p. 78, tab. XIX, f. 1. 1562

*Hab.* in pag. sup. foliorum *Laurinæ* cujusdam in ins. Java. Perithecia globosa dein depressa 200-250  $\mu$ . diam.; asci obovati, bispori; sporidia 4-septata, fusca 53-58  $\approx$  24-28.

28. *Meliola malacotricha* Speg. — Syll. IX, p. 425. — var. *longispora* 1563  
Gaill. Gen. Mel. p. 82.

*Hab.* in pag. sup. foliorum *Crotonis floribundi*, S. Catharina Brasilæ (ULÉ). — A typo differt mycelio parciore; peritheciis creberrimis; sporidiis longioribus, 43-47  $\approx$  14-15.

29. *Meliola Montagnei* Pat. in Gaill. Gen. Mel. p. 85, tab. XV, f. 3. 1564

*Hab.* in utraque pagina foliorum *Salaciæ undulatæ*, in ins. Mauritiæ (Du-Petit-Thouars). — Perithecia glaberrima; asci ovoidei bispori; sporidia 4-septata, fuliginea, 57-62  $\approx$  18-20.

30. *Meliola leptospora* Gaill. Gen. Mel. p. 86, tab. XVI, f. 5. 1565

- Hab.* in pag. inf. foliorum quorundam, Congo (THOLLON). — Perithecia globulosa 150-200  $\mu$ . diam.; asci ellipsoidei, bispori; sporidia 4-septata, fusco-incarnata, 46-54  $\approx$  11-12.
31. *Meliola Thollonis* Gaill. Gen. Mel. p. 88, tab. XV, f. 6. 1566  
*Hab.* in pag. inf. foliorum quorundam, Congo (THOLLON). — Perithecia globosa, 200-250  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fuliginea 68  $\approx$  23-24.
32. *Meliola francevilleana* Gaill. Gen. Mel. p. 88, tab. XVI, f. 1. 1567  
*Hab.* in utraque pag. Breweriæ, Franceville Congo (DE BRAZA et THOLLON). — Perithecia globulosa 200-250  $\mu$ . diam.; asci ovoideo-elongati 70-75  $\approx$  30-35; sporidia 4-septata, 60-63  $\approx$  14-16.
33. *Meliola Uleana* Pazschke Gaill. Gen. Mel. p. 90, tab. XXI, f. 3. 1568  
*Hab.* ad folia Eleocharidis, Sao-Francisco Brasiliæ (ULA). — Perithecia rugulosa 200-250  $\mu$ . diam.; asci ovoidei bi-quadrifidi; sporidia 4-septata, 42-48  $\approx$  16-17, fuliginea.
34. *Meliola effusa* Gaill. Gen. Mel. p. 91, tab. XVI, f. 4. 1569  
*Hab.* in pag. inf. fol. coriaceorum, Paramaribo Surinam (KONGEL). — Perithecia globosa 180-200  $\mu$ . diam.; asci ovoidei bispori; sporidia 4-septata, fuliginea, 55-60  $\approx$  15-18.
35. *Meliola polytricha* K. et C. — Syll. I, p. 67. — var. *Abyssinica* 1570  
P. Henn. F. Æthiop. I, p. 117.  
*Hab.* in foliis vivis Osyridis abyssinicae pr. Saganèiti col. Erythrææ (SCHWEINFURTH). — Perithecia subglobosa; asci 60-84  $\approx$  24-32, bispori; sporidia 4-septata, fusco-brunnea, 40-60  $\approx$  17-22.
36. *Meliola jasminicola* P. Henn. Hedw. 1895, p. 11. 1571  
*Hab.* in foliis Jasmini in hortis, Hanoi Tonkin (BALANSA). — Perithecia subglobosa 240-300  $\mu$ . diam.; asci bi-trispori oblongi; sporidia 30-36  $\approx$  10-15, constricto-4-septata, atro-brunnea. *M. polytrichæ* affinis.
37. *Meliola irradians* Gaill. Gen. Mel. p. 92, tab. XVI, f. 6. 1572  
*Hab.* in utraque pagina foliorum Mauriæ simplicifoliæ Quillota, Chili (BERTERO). — Perithecia verrucosa 180-200  $\mu$ . diam.; asci ovoideo-elongati, bispori; sporidia 4-septata, opace fuliginea 47-52  $\approx$  17-19.

e. Setæ myceliales uncinatæ.

(*Meliola orbicularis*, *Musæ*, *eriophora*, *denza* et sequentes).

38. *Meliola intermedia* Gaill. Gen. Mel. p. 94, tab. XVII, f. 2. 1573  
*Hab.* in utraque pag. foliorum Apocynaceæ et Rubiaceæ cujusdam, Congo (THOLLON). — Perithecia globulosa 250-300  $\mu$ .

diam.; asci globoso-ovoidei, bi-quadrifidus; sporidia 4-septata, fuliginosa, 38-42  $\approx$  13-17.

39. *Meliola Balansæ* Gaill. Gen. Mel. p. 95, tab. XVII, f. 1. 1574

*Hab.* in fol. coriaceis, Carapégua, Paraguay (BALANSA). — Perithecia globulosa 200-250  $\mu$ . diam.; asci subglobosi, 4-spori; sporidia 4-septata, fuliginosa, 62-70  $\approx$  20-22.

40. *Meliola Pazschkeana* Gaill. Gen. Mel. p. 95, tab. XXI, f. 4. 1575

*Hab.* in fol. Bauhinia in Rio-de-Janeiro, Brasiliæ (ULB). — Perithecia globosa 150-210  $\mu$ . diam.; asci ovoidei, bi-trispori; sporidia 4-septata, fuscicula, 43-46  $\approx$  14-15.

*f. Setæ myceliales furcatae.*

(*Meliola bicornis*, *bidentata*, *furcata*, *Evodia*, *tenella*, *dichotoma*, *Bambusa bifida* et sequentes).

41. *Meliola perexigua* Gaill. Gen. Mel. p. 98, tab. XVII, f. 5. 1576

*Hab.* in pag. inf. foliorum coriaceorum, Congo (THOLLON). — Perithecia globulosa 110-130  $\mu$ . diam.; asci ovoidei, bi-quadrifidus; sporidia 4-septata, fuscicula, 30-32  $\approx$  8-10.

42. *Meliola denticulata* Wint. in Gaill. Gen. Meliol. p. 98, tab. XXI, fig. 5. 1577

*Hab.* ad folia Centrosema virginiana, Sao-Francisco, Brasiliæ (ULB). — Perithecia globosa, collabentia, 160-200  $\mu$ . diam.; asci 65-68  $\approx$  28, bi-trispori; sporidia 4-septata, fusca, 41-46  $\approx$  16.

43. *Meliola monilisporea* Gaill. Gen. Mel. p. 101, tab. XVIII, f. 2. 1578

*Hab.* in pag. infer. foliorum quorundam, Niari, Congo (THOLLON). — Perithecia globulosa 150-200  $\mu$ . diam.; asci ovoidei, bi-spori; sporidia 4-septata, 55-58  $\approx$  15-20, loculis globosis.

44. *Meliola pululahuensis* Gaill. Bull. Soc. Myc. 1892, p. 183, t. XV, fig. 2. 1579

*Hab.* in pag. sup. foliorum Piperis, Pululahua Æquatoriae. — (LAGERHEIM). — Perithecia globulosa 220-250  $\mu$ . diam.; asci ovoidei 2-4-spori; sporidia 4-septata, fusca, 51-58  $\approx$  18-20.

45. *Meliola Sapindacearum* Speg. F. Guar. nonn. n. 79, p. 29, Gaill. Bull. Soc. Mycol. 1892, p. 184, t. XV, f. 3. 1580

*Hab.* in foliis vivis Sapindaceæ, Caá-guazú Brasiliæ. — Perithecia globosa, 120-160  $\mu$ . diam.; asci evanidi; sporidia 4-septata, fuliginosa, 38-42  $\approx$  16-18.

46. *Meliola solanicola* Gaill. Bull. Soc. Myc. 1892, p. 184, t. XVI, fig. 3. 1581

- Hab.* in pag. inf. foliorum Solani cujusdam, San-Jorge Æquatoriae (LAGERHEIM). — Perithecia globosa, 150-200  $\mu$ . diam.; asci ovoidei, 2-4-spori; sporidia 38-40  $\approx$  12-14, dilute fuliginea, 4-septata.
47. *Meliola andina* Gaill. Bull. Soc. Myc. 1892, p. 185, t. XVI, f. 4. 1582  
*Hab.* in utraque pag. foliorum arboris ignotæ Canzacoto Æquatoriae (LAGERHEIM). — Perithecia globosa, 180-210  $\mu$ . diam.; asci ovoidei 2-4-spori; sporidia 4-septata, fusca, 39-40  $\approx$  13-14.
48. *Meliola Harioti* Speg. Fl. Guar. nonn. n. 78, Gaill. in Bull. Soc. Myc. 1892, p. 186, t. XV, f. 4. 1583  
*Hab.* ad folia Bignoniaceæ (an Leguminosæ?) prope Asuncion Paraguay. — Perithecia globosa 150-250  $\mu$ . diam.; asci ellipsoidei 50  $\approx$  30, bispori; sporidia 4-septata, fuliginea, 49-55  $\approx$  16-18.
49. *Meliola Mikanæ* Gaill. in Bull. Soc. Myc. 1892, p. 187, t. XVI, fig. 5. 1584  
*Hab.* in pag. sup. foliorum Mikaniæ, Corazon Æquatoriae (LAGERHEIM). — Perithecia globosa, 200-250  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fuscidula, 45-50  $\approx$  20-22.
50. *Meliola palmicola* Wint. Hedw. 1887, p. 31. 1585  
*Hab.* in foliis vivis Sabaleos serrulatæ, in Florida (MARTIN). — Perithecia globosa 175-240  $\mu$ . diam.; asci evanidi; sporidia 4-septata, fusca, 52-62  $\approx$  19-23.
51. *Meliola evanida* Gaill. Gen. Mel. p. 102, tab. XVIII, f. 4. 1586  
*Hab.* in pag. inf. Strychni cujusdam, Loango, Congo (THOLLON). — Perithecia globulosa 150-170  $\mu$ . diam.; asci ovoidei, bitrispori; sporidia 4-septata, 41-45  $\approx$  14-16, fuliginea.
52. *Meliola pellucida* Gaill. Gen. Mel. p. 103, tab. XXIII, f. 1. 1587  
*Hab.* in foliis Leguminosæ (Phaseoli?) in Puente de Chimbo Æquatoriae (LAGERHEIM). — Perithecia globosa 120-170  $\mu$ . diam.; asci ellipsoidei, bispori; sporidia 4-septata, fuscidula, 38-43  $\approx$  13-15.
53. *Meliola crenata* Wint. Gaill. Gen. Mel. p. 104, tab. XXI, f. 6. 1588  
*Hab.* ad folia Malpighiaceæ cujusdam, S. Francisco Brasilie (ULE). — Perithecia globosa 190  $\mu$ . diam.; asci ellipsoidei, bispori; sporidia 4-septata, 53-66  $\approx$  14-20.
54. *Meliola fuscidula* Gaill. Gen. Mel. p. 104, tab. XXII, f. 3. 1589  
*Hab.* in pag. inf. foliorum quorundam, S. Catharina Brasilie (ULE). — Perithecia globosa 120-170  $\mu$ . diam.; asci obovati, bitrispori; sporidia 4-septata, fuscidula, 36-38  $\approx$  11-12.
55. *Meliola Loranthei* Gaill. Gen. Mel. p. 105, tab. XVIII, f. 5. 1590  
*Hab.* in pag. sup. foliorum Loranthei, in ins. Borneo (KOR-

- THALS). — *Perithecia globulosa*, 150-200  $\mu$ . diam.; asci evanidi; sporidia 4-septata, atro-fuliginea, 62-68  $\approx$  24-26.
56. *Meliola Zollingeri* Gaill. Gen. Mel. p. 105, tab. I, f. 5. 1591  
*Hab.* in pag. sup. foliorum *Desmodii*, in ins. Java (ZOLLINGER). — *Perithecia* 250-300  $\mu$ . diam.; asci ovoidei, bi-trispori; sporidia 4-septata, dilute fuliginea, 39-43  $\approx$  13-16.
57. *Meliola Weigeltii* Kunze Gaill. Gen. Mel. p. 106, tab. XIX, f. 1. 1592  
*Hab.* in pag. inf. foliorum *Astronii*, Peribebuy, Paraguay (BALANSA). — *Perithecia* 150  $\mu$ . diam.; asci ovoidei, bi-trispori; sporidia 4-septata, 37-42  $\approx$  13-16.
58. *Meliola Patouillardii* Gaill. Gen. Mel. p. 109, tab. XXIII, f. 2. 1593  
*Hab.* in utraque pag. foliorum *Piperis*, S. Nicolas *Æquatoriae* (LAGERHEIM). — *Perithecia globosa* 150-180  $\mu$ . diam.; asci ellipsoidei bispori; sporidia 4-septata, fusca, 37-43  $\approx$  13-14.
59. *Meliola Forbesii* Gail. Gen. Mel. p. 110, tab. XX, f. 1. 1594  
*Hab.* in pag. sup. foliorum quorundam, Sumatra (FORBES). — *Perithecia globulosa* 120-130  $\mu$ . diam.; asci ovoidei, bispori; sporidia 4-septata, fuliginea, 38  $\approx$  16.

## II. Asci clavati v. cylindracei.

*Meliola hyalospora* (sp. 3-septatis), *M. clavatispora* (sp. 4-septatis)  
*M. quercina* (sp. 5-septatis).

## Species dubiæ.

*Meliola penicillata* Lév., *M. pachytricha* (Link) Sacc., *M. mucronata* (Mont.) Sacc.

**SCHENCKIELLA** P. Henn. F. brasil. II, p. 523 (Etym. a cl. doct. H. SCHENCK berolin.). — Mycelium repens, filiforme, nigrum, ramosum. *Perithecia* minuta, subglobosa, rugulosa, atra. Asci paraphysati, substipitati, 2-8-spori. Sporidia oblonga, 4-8-septata, fusca, dein in articulos dilabentia. — Ex *Microthyriaceis* enumeratur a cl. auctore, sed, ut opinor, ex lapsu calami.

1. *Schenckiiella Marcgraviæ* Henn. Fung. bras. II, p. 523. 1595  
*Hab.* in pag. inf. foliorum *Marcgraviæ Schimperianæ*, S. Catharina Brasilæ. — *Perithecia* 300  $\mu$ . diam.; asci 90-130  $\approx$  20-32; sporidia 4-8-septata, cylindracea, 80-120  $\approx$  7-11, dein atro-fusca.

**ZUKALIA** Sacc. — Syll. IX, p. 431.



1. **Zukalia fusispora** Pat. Bull. Soc. Myc. 1892, p. 130, t. XI, f. 4. 1596  
*Hab.* in foliis Ingæ, San Florencio Æquatoriæ (LAGERHEIM). — Perithecia globosa 200-300  $\mu$ . diam.; asci clavati 150  $\approx$  35-40; sporidia 3-septata, hyalina, 70-85  $\approx$  10-14.
2. **Zukalia Buddleiæ** Pat. Bull. Boiss. 1895, p. 67. 1597  
*Hab.* in pag. inf. foliorum Buddleiæ, Pululahua Æquatoriæ. — Mycelium nullum; perithecia globosa, 250  $\mu$ . diam., pilis sparsis fuscis vestita; asci 160-200  $\approx$  20-25; sporidia 45-50  $\approx$  8, hyalina, 7-8-septata, medio constricta.

**ASTERIDIUM** Sacc. — Syll. I, p. 49, IX, p. 435.

1. **Asteridium moniliferum** E. et Ev. in Journ. Trinid. Field Natu- 1598  
 ral Club. 1894.  
*Hab.* in foliis vivis Saracæ indicæ in ins. Trinidad (Cocke-  
 rell). — Perithecia convexa 0,3-0,5 mm. diam.; asci 70-80  $\approx$  15-20;  
 sporidia multiseptata, flavido-hyalina, 30-50  $\approx$  4-6.
2. **Asteridium Lagerheimii** Pat. Bull. Soc. Myc. 1892, p. 129. 1599  
*Hab.* in pag. inf. foliorum Siphocampyli, Banos Æquato-  
 riæ. — Perithecia globosa 150-200  $\mu$ . lat.; asci 120  $\approx$  18; sporidia  
 fusioidea 8-septata, hyalina, 35-42  $\approx$  6-7.
3. **Asteridium apertum** Pat. Bull. Soc. Myc. 1892, p. 129. 1600  
*Hab.* in pag. inf. foliorum Araliæ, Pichincha Æquatoriæ (LA-  
 GERHEIM). — Perithecia globoso-cupulata 300  $\mu$ . lat.; asci 90  $\approx$  10;  
 sporidia 3-septata, hyalina, 18-20  $\approx$  4-5.
4. **Asteridium Punctum** Pat. Bull. Boiss. 1895, p. 67. 1601  
*Hab.* in pag. inf. foliorum Tessariæ, Puululahua Æquato-  
 riæ. — Perithecia 130-150  $\mu$ . diam., mycelio parcissimo insidentia;  
 asci 60  $\approx$  12; sporidia 20-22  $\approx$  7, pallide fusca, 3-septata.

**PSEUDOMELIOLA** Speg. — Syll. IX, p. 938.

1. **Pseudomeliola Seleriana** P. Henn. Hedw. 1894, p. 232. 1602  
*Hab.* in foliis vivis Struthanthi Selerorum, Mexico (Doct.  
 SELER). — Perithecia subhemisphærica dein subcupulata; asci 33-  
 60  $\approx$  9-13; sporidia cylindræa, continua guttata, subhyalina 28-  
 42  $\approx$  2,5-3,5; paraphyses filiformes.
2. **Pseudomeliola andina** Pat. Bull. Soc. Myc. 1893, p. 150. 1603  
*Hab.* in pag. inf. foliorum arboris ignotæ, Canzacoto Æqua-  
 toriæ (LAGERHEIM). — Perithecia ovoideo-elongata, 250-300  $\approx$  150,  
 coriacea, poro pertusa; asci 90  $\approx$  12, octospori; sporidia bacillaria,  
 65  $\approx$  3, guttulata, hyalina.

**HYALODERMA** Speg. — Syll. IX, p. 437.

1. *Hyaloderma? lateritium* Pat. et Lagerh. Bull. Soc. Myc. 1893, 1604 p. 150.

*Hab.* in mycelio *Metiölæ Lagerheimi*, Rio Machangara, Æquatoriæ. — Perithecia subglobosa, lateritia, 50  $\mu$ . lat.; asci 30  $\approx$  10; sporidia matura non visa; conidia ovoidea, hyalina, 6-7  $\approx$  2-3.

**CLEISTOTHECA** Zuk. Mykol. Mittheil. pag. 4, T. XI, f. 11-19 (Bot. Zeitsch.) (Etym. *cleistos* clausus et *thece* pro perithecio). — Perithecia globulosa, astoma, atra, superficialia, duriuscula, fragilia. Asci elongati, octospori, aparaphysati. Sporidia pluri-septato clathrata; flavido-brunnea. Status conidicus *Stachybotryos* speciem sistit.

1. *Cleistotheca papyrophila* Zuk. Mykol. Mittheil. p. 4, t. XI, f. 11-19. 1605

*Hab.* in *Gossypii* floccis udis maculatis, Wien Austriæ. — Perithecia 160-350  $\mu$ . diam.; asci subsessiles 130-138  $\approx$  30-32; sporidia 6-8-septata denseque muriformia, 30 35  $\approx$  17-18, flavo-brunnea.

*Subfam. 3. Capnodiææ* Sacc.

**CAPNODIUM** Mont. — Syll. I, p. 73 et IX, p. 438.

1. *Capnodium cæspitosum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 325. 1606

*Hab.* in foliis vivis *Photiniæ japonicæ* Pasadena, Calif. Amer. bor. — Perithecia subulata, simplicia v. ramosa, 300-400  $\approx$  60-70; sporidia (sporulæ?) 3-septata, 12-20  $\approx$  7-10, subhyalina, dein submuriformia, atro-brunnea.

2. *Capnodium Coffeæ* Pat. Bull. Soc. Myc. 1893, p. 150.

*Hab.* in pag. sup. foliorum *Coffeæ arabicæ*, Patatoë Æquatoriæ. — Perithecia numerosa, longissima 1-1,5 mm. long., 20-30  $\mu$ . crass., valde ramosa; sporidia non visa.

3. *Capnodium pelliculosum* B. et Rev. — Syll. I, p. 79. — C. Ellis Sacc. *C. pelliculosum* (p. p. in *Magnolia*), Ell. Am. Pyr. p. 51, Sacc. Syll. IX, p. 439. 1608

*Hab.* in foliis *Pruni* et *Magnoliæ* in Carolina inf. et Florida Amer. bor. — Perithecia oblonga v. ampulliformia 75-200  $\approx$  30-50, sporulis 3-4  $\approx$  1 foeta; conidia stellato 3-4-partita (*Triposporioidea*) 50-70  $\approx$  7-9, multiseptata; perithecia ascigera globulosa 10-150  $\mu$ . diam.; asci 40  $\approx$  25; sporidia uniseptata, hyalina, dein 3-septata, 15-22  $\approx$  4 7.

4. *Capnodium Walteri* Sacc. Hedw. 1893, p. 58, t. VI, f. 3. — Ni- 1609  
grum, late effusum, pelliculoso-secedens, foedans, superficie inæ-

quali; hyphis repentibus, ramosis, fuliginéis, 6-7  $\mu$ . cr., cuboideo-articulatis, intertextis, ramis subinde adscendentibus, brevibus, simplicibus v. furcatis, apice conidia fusioidea, sæpe curva, utrinque acuta, 10-12-septata, haud constricta, 70-80  $\approx$  6-8, fuliginea gerentibus; peritheciiis ascophoris et spermogonicis immixtis, polymorphis phialiformibus v. obclavatis, sæpe inæquilateris, in collum plus minus attenuatis; ascis clavato-obovatis, subsessilibus, apice rotundatis crasseque tunicatis, 60  $\approx$  30, octosporis; sporidiis 2-3-stichis, fusioideo-clavatis, apice obtusatis, 3-septatis, haud v. vix medio constrictis, 20-22  $\approx$  6-8, fuliginéis; spermogonii sporulis oblongis, 5  $\approx$  2, hyalinis, biguttatis.

*Hab.* in ramis et foliis vivis Bursariæ spinosæ, Upper Yarra Australiæ (WALTER). — Notis conidiorum (fere Helminthosporii) et sporidiorum fusiformium, haud muralium, a speciebus congeneribus differt. Forte congruit cum forma floridana *Capn. pelliculosi* a cl. Ellis descripta (Pyr. North. Am. p. 51) sed conidia triplosporioidea in nostro omnino nulla.

5. *Capnodium grandisporum* E. et Mart. in Ellis Am. Pyr. pag. 50, 1610 t. VII.

*Hab.* in foliis Gelsemii sempervirentis et Myricæ, Florida (MARTIN). — Perithecia pycnidica 900  $\approx$  35, sporulis hyalinis 10-12  $\approx$  2 fœta; perithecia ascigera globosa dein depressa, 120  $\mu$ . diam.; asci 75-120  $\approx$  15-20, octospori; sporidia hyalina subclavata, 4-5-septata, 30-45  $\approx$  6-7.

6. *Capnodium ramosum* Cooke Grev. XXI, p. 76.

1611

*Hab.* in foliis Mangiferæ in India (herb. BERKELEY). — Perithecia erecta, bifurcata ramosaque, 300  $\approx$  30; asci non visi.

## Fam. 2. Sphæriaceæ Fr. \*)

### Sect. 1. Allantosporæ.

ENCHNOA Fr. — Syll. I, p. 89, IX, p. 442.

1. *Enchnoa floccosa* (Fr.) Karst. Syll. I, p. 90. Huc spectat *Sphæria abnormis* Fr., teste Starb. Stud. p. 8. 1612

\*) Quod ad *Sphæriaceas phæosphragmias*, *hyalosphragmias*, *dictyosporas* et *Lophiostomaceas* attinet, cfr. BERLESF Icones fungorum, vol. I et II, i, et seq. Patavii et Abellini, 1890-1895, ubi in tab. color. 232, species et genera permulta ad naturam illustrantur.

2. *Enchnoa mucida* (Tode) Starb. Stud. p. 11, t. 1, fig. 3, *Sphæria* 1613  
*mucida* Tode?, Mont. herb.

*Hab.* ad ligna in Arduennis (MONTAGNE). — Perithecia solitaria v. 2-plura conferta, globosa, fusco-tomentosa, longiuscule obtuse ostiolata; asci sessiles 30-40  $\approx$  6-7; sporidia allantoides, hyalina 7,5-9  $\approx$  2,5. Ex icone potius *Eutypella* videtur quam *Enchnoa*.

**NITSCHKEA** Oth in Fuck. Symb. p. 165, emend. Ellis N. Am. Pyr. p. 245 (Etyim. ab ill. mycologo TH. NITSCHKE). — Sistit *Cælosphæria* species peritheciis cæspitosis; ceteræ species, peritheciis sparsis v. discretis, sub *Cælosphæria* typo militabunt. Cfr. Ellis l. c. p. 246.

1. *Nitschkea pauidia* (B. et C.) Cooke Grev. XX, p. 107, *Sphæria* 1614  
*pauidia*, B. et C. in Herb. — Peritheciis in acervulos minulos aggregatis (3-8) vel confluentibus, subglobosis, atris, opacis, epidermide fissa erumpentibus; ascis clavato-cylindraceis; sporidiis allantoides, curvatis, continuis, hyalinis, 7-8  $\approx$  2.

*Hab.* in ramis *Melæ*, Carol. inf. Amer. bór.

**CÆLOSPHÆRIA** Sacc. — Syll. I, p. 91, IX, p. 443.

1. *Cælosphæria Beccariana* Berl. Mior. Tosc. in N. Giorn. bot. it. 1615  
1892, p. 110, tab. VII, f. 3.

*Hab.* in ligno carioso in Selva pisana Etruriæ (BECCARI). — Perithecia discreta 0,3 mm. diam., rugulosa, cupulata; asci 22-27  $\approx$  10-12 (p. sp.); sporidia 10-12  $\approx$  3-4, chlorina.

**FRACCHIA** Sacc. — Syll. I, p. 9, IX, p. 445.

1. *Fracchiæa rostrata* Delacr. Bull. Soc. Myc. 1893, p. 266, t. XIV, 1616  
f. 6,7.

*Hab.* in radicibus *Vitis viniferæ* (a *Dematophora necatis*, Parisiis Galliæ. — Perithecia 1 mm. lata, collo 0,5 mm. longo; asci 140  $\approx$  5-6; sporidia 8-10  $\approx$  2,5 luteola, «An hujus generis?»

**CALOSPHERIA** Tul. — Syll. I, p. 95, IX, p. 447.

1. *Calosphæria polyblasta* Rommel et Sacc. Grev. XXI, p. 65, t. 184, 1617  
f. 1. — Peritheciis in acervulos minulos ternis-senis aggregatis v. subsparsis, sub peridermio adhærenti v. relaxato nidulantibus, globulosis,  $\frac{1}{2}$ - $\frac{3}{4}$  mm. diam., glabris, demum basi concavo-collabentibus, nigris, intus nitidulis; ostioliis brevicollibus, acutulis, integris, peridermium perforantibus vix excedentibus; ascis clavatis,

deorsum tenuato-stipitatis, 42-50  $\approx$  9-10, apice obtusulis, 8-sporis, paraphysibus filiformibusasco longioribus; sporidiis in asci parte superiore conglobato-distichis, cylindraceis, curvatis, utrinque rotundatis, 5-cuboideo-nucleatis simulateque 4-septatis, non constrictis, 12-22-plerumque 15  $\approx$  3, hyalinis.

*Hab.* in ramulis siccis Salicis capræ, ad Stockholm Sueciæ, (LARS ROMELL). — A *Cal. vasculosa* affinisque præcipue sporidiis pseudoseptatis, longis recedit.

2. *Calosphæria cornicola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 342. 1618

*Hab.* in ramis emortuis Corni asperifoliæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 200-250  $\mu$ . diam., ternato-quina; asci 27-32  $\approx$  6-6,5; sporidia 10-12  $\approx$  2, hyalina.

3. *Calosphæria Punicæ* Roll. Bull. Soc. Myc. 1891, p. 211, t. XIV, f. 1, 1619

*Hab.* in cortice Punicæ Granati, Golfe Jouan Galliæ. — Perithecia globosa, crassiuscule rostrata; asci 30-40  $\approx$  5; sporidia 10  $\approx$  2,5, hyalina.

4. *Calosphæria herbicola* E. et Ev. North Am. Pyr. p. 511. 1620

*Hab.* in caulibus emortuis Lactuæ canadensis, Newfield, N. J. Amer. bor. — Perithecia 100  $\mu$ . diam., subsparsa; asci 18-20  $\approx$  5; sporidia 3-4  $\approx$  1,5-2, hyalina.

**VALSA** Fr. — Syll. I, p. 108, IX, p. 449.

1. *Valsa Diospyri* Ell. et Ev. Proc. Acad. Phil. 1894, p. 340, 1621

*Hab.* in ramis emortuis Diospyri virginianæ, Nuttallburg West Va. Amer. bor. (NUTTALL). — Perithecia quaterno-sena, 0,2-0,3 mm. diam.; asci 25  $\approx$  5 (p. sp.); sporidia 8-10  $\approx$  1,5-2, hyalina.

2. *Valsa Chionanthi* Ell. et Ev. Proc. Acad. Phil. 1894, p. 340. 1622

*Hab.* in ramis emortuis Chionanthi virginicæ, Nuttallburg West Va. Amer. bor. (NUTTALL). — Perithecia quaterno-dena, 0,2-0,3 mm. diam.; asci 40-45  $\approx$  8-10 (p. sp.); sporidia 12-15  $\approx$  3, 5-4,5; spermogonia: *Cytospora Chionanthi* Ell. et Ev. l. c.; sporulæ 4-6  $\approx$  1-1,2.

3. *Valsa lunulæspora* Pat. Bull. Boi-s. 1895, p. 68. 1623

*Hab.* in ramulis Cissi, San Jorge Æquatoriæ. — Perithecia subglobosa 3-8 in quoque stromate, ostiolis conicis; asci 35  $\approx$  6-7; sporidia 8-10  $\approx$  2-3, valde curvata, dilute-fuliginea.

4. *Valsa ribicola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 340. 1624

*Hab.* in ramis emortuis Ribis aurei, Kansas Amer. borealis. (BARTHOLOMEW). — Perithecia circinata 230-250  $\mu$ . diam.; asci 60  $\approx$  8; sporidia 12-15  $\approx$  3-4, hyalina.

5. *Valsa tenebricosa* B. et Br. Cooke Grev. XX, p. 106, *Sphæria* 1625  
*tenebricosa* B. et B. in Herb. — Pustulis ellipticis, epidermide  
nigrificata nitida tectis, demum elongato-erumpentibus (*Phyllachor-*  
*am* subæmulantibus); peritheciis paucis, minutis, in colla brevia at-  
tenuatis; ascis clavatis, octosporis,  $25 \approx 5$ ; sporidiis allantoideis, re-  
ctis vel curvulis, hyalinis,  $4-5 \approx 1$ .

*Hab.* in spatha Palmarum, Ceylon.

6. *Valsa etherialis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 341. 1626

*Hab.* in ramis emortuis *Aceris rubri*, Nuttallburg, West Va.  
Amer. bor. (NUTTALL). — Perith. circinata  $150-250 \mu$ . diam.; asci  
 $15-22 \approx 4-4.5$  (p. sp.); sporidia  $5-6 \approx 1$ , hyalina.

7. *Valsa pallida* E. et E. North Am. Pyr. p. 485. 1627

*Hab.* in cortice Salicis, Clyde N. Y. Amer. bor. (COOK). — Pe-  
rithecia quaterno-octona,  $0,2$  mm. diam.; asci  $30-35 \approx 5$ ; sporidia  
 $6-8 \approx 1-1,5$ , hyalina. E sect. *Leucostoma*.

**EUTYPELLA** (Nits.) Sacc. — Syll. I, p. 147, IX, p. 460.

1. *Eutypella Coryli* E. et E. New. sp. north Amer. Fung. in Proceed. 1628  
Acad. S. N. Philad. 1893, p. 143.

*Hab.* in ramis emortuis *Coryli*, Canada (DEARNESS). — Peri-  
thecia  $8-15$  in quoque stromate,  $250 \mu$ . diam.; asci  $20-30 \approx 4$ ; spo-  
ridia  $5-6 \approx 1,2$ , flavida.

2. *Eutypella carpinicola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 342. 1629

*Hab.* in truncis emortuis *Carpini americanæ*, Alcove N.  
Y. Amer. bor. (SHEAR). — Perithecia terno-sena,  $0,5-0,7$  mm. diam.;  
asci  $40-50 \approx 5$ , longe stipitati; sporidia  $8-10 \approx 2$ , luteola.

3. *Eutypella æsculina* E. et E. New Californ. Fung. in Erythea 1893, 1630  
p. 146.

*Hab.* in ramis emortuis *Æsculi californicæ* in California  
(BLASPALE). — Perithecia terno-octona,  $0,5$  mm. diam.; asci  $20 \approx 4$   
(p. sp.); sporidia  $3,5-4,5 \approx 1,2$ , hyalino-flavidula.

4. *Eutypella densissima* Ell. et Ev. Proc. Acad. Phil. 1894, p. 341. 1631

*Hab.* in truncis emortuis *Araliæ spinosæ*, Nuttallburg West  
Va. Amer. bor. (NUTTALL). — Perithecia  $50-70$  in quoque stro-  
mate,  $100-120 \mu$ . diam.; asci  $25-30 \approx 4$  (p. sp.); sporidia  $8-10 \approx$   
 $1,5-2$  hyalina.

5. *Eutypella Amorphæ* E. et E. in Proceed. Acad. S. N. Philad. 1893 1632  
p. 140.

*Hab.* in ramis emortuis *Amorphæ fruticosæ*, Kansas (BAR-

THOLOMEW). — *Perithecia sena-octona* 0,5 mm. diam.; asci 36-40 3-3,5; sporidia 5-6  $\approx$  1,5, hyalina.

6. *Eutypella microsperma* Karst. et Malbr. in Le Breton et Niel 1633  
Champ. Norm. V Liste, p. 143, fig. 6.

*Hab.* in ramis siccis Pruni pr. Rouen Galliæ (LETENDRE). — *Perithecia* 10-20 in quoque stromate; asci 30-35  $\approx$  4-5; sporidia 5-6  $\approx$  1.

**VALSELLA** Fuck. — Syll. I, p. 158, IX, p. 464.

1. *Valsella Myricæ* Bres. in Heun. Pilzfl. Schlesw. I, p. 256. 1634

*Hab.* in ramis emortuis *Myricæ* Gales, Schleswig-Holstein. — *Perithecia minima*, in quoque stromate 5-9; asci 60  $\approx$  6-7; sporidia 7-8,5  $\approx$  1,5-2.

**EUTYPA** Tul. — Syll. I, p. 162, IX, p. 466. — Conferenda absoluta monographia difficilis generis cl. doct. JULII PAOLETTI (Saggio monogr. gen. *Eutypa*. Venezia 1892) iconibus et clavi analytica omnium specierum locupletata.

1. *Eutypa sparsa* Romell in Paoletti Monogr. *Eutyp.* p. 39, t. VIII, 1635  
fig. 3.

*Hab.* in ramis decorticatis *Populi tremulæ* in Suecia (ROMELL). — *Perithecia monosticha* 200-350  $\mu$ . diam.; asci 16-23  $\approx$  4-5,5 (p. sp.); sporidia 6  $\approx$  1,5, cremea v. hyalina.

2. *Eutypa systoma* (Fr.) Starb. Stud. p. 17, f. 8, *Sphæria* Fr. Syll. 1636  
II, p. 375. — Sporidia allantoidea 5-6  $\approx$  1-2. (Ad cortices arborum).

3. *Eutypa implicata* (Lév.) Sacc. Fungi herb. Brux. n. 10, *Sphæria im-* 1637  
*plicata* in Ann. Sc. nat. 1863, p. 295 [in Herb. Brux.]. *Valsa* Berl. in Sacc. Syll. IX, p. 453, *Quaternaria Novæ-Granatæ* Fuck. MS. in Herb. Brux.

*Hab.* in corticibus in Nova Granata (LINDIG). — Non satis diversa a var. *quaternariæformi Eutypæ ludibundæ* Sacc. Syll. I, p. 168.

**ENDOXYLA** Fuck. — Syll. I, p. 181, IX, p. 469.

1. *Endoxyla austriaca* Bäuml. Zur Pilzfl. Niederöst. VI, p. 89. 1638

*Hab.* in truncis *Carpini* Schönbrunn Austriæ (ZAHNBRUCKNER). — *Perithecia* 600-900  $\approx$  320-360, collo subæquilongo; asci 40  $\approx$  3, 5-4 (p. sp.); sporidia 6-7  $\approx$  3-3,5, brunnea.

2. *Endoxyla acericola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 342. 1639

*Hab.* in ligno emortuo *acerino* Ontario, Canada (DEARNESS). —



Perithecia valsoideo-aggregata v. sparsa 300-350  $\mu$ . diam.; asci 130-140  $\approx$  12; sporidia 3-septata, brunnea, 18-22  $\approx$  8-10.

3. *Endoxyla lineata* (Alb. et Schw.) Cooke Grev. XX, p. 82 *Sphæria* 1640  
*lineata* Alb. et Schw. Lusat. p. 30, t. XI, Fr. S. M. II, 373.

*Hab.* in ligno pineo vetusto sicco in Lusatia, raro. — Sporidia, teste Cooke, allantoidea, 8-10  $\mu$ . longa, ex ipso spec. Schweinitziano; species nunc omnino neglecta, mihi ignota; an tamen non satis diversa ab *E. parallela*?

**CRYPTOVALSA** Ces. et De Not. — Syll. I, p. 107, IX, p. 471.

1. *Cryptovalsa tenella* Sacc. Fungi Abyss. p. 4, t. XX, f. 3. — Pe- 1641  
ritheciis late effusis, crebris, peridermio fere immutato immersis, globosis, nigris, 0,3-0,5 mm. diam. ostiolis vix erumpentibus, obtusis, haud sulcatis, pertusis; ascis fusoides, acutiusculis, p. s. 45  $\approx$  7, in stipitem longum guttulatum, 50  $\approx$  3, attenuatis, myriosporis; sporidiis conglobatis, allantoideis, 5-6  $\approx$  1, dilute melleis; paraphysibus nullis.

*Hab.* in ramis Acaciæ (?), Valle Boyn pr. Keren, socia *Valsella myriothea*. — Affinis *Crypt. uberrimæ*, sed perithecia non acervulata, ostiola non rimosa etc.

**DIATRYPE** Fr. — Syll. I, p. 191, IX, p. 472.

1. *Diatrype cornuta* E. et E. North Am. Pyr. p. 568. 1642

*Hab.* in cortice emortuo Ailanthi, Lyndonville N. Y. Amer. bor. (FAIRMAN). — Stroma 2-3 mm. diam.; perithecia longe rostrata; asci 25-35  $\approx$  8-10 (p. sp.), sporidia 10  $\approx$  3, flava.

2. *Diatrype celastrina* Ell. et Ev. Proc. Acad. Phil. 1894, p. 343. 1643

*Hab.* in ramis emortuis Celastris scandentis Kansas (BARTHOLOMEW). — Stroma 2-3 mm. diam.; perithecia 0,5-0,7 mm. diam.; asci 60-70  $\approx$  7-8; sporidia 10-12  $\approx$  2-3, brunneola.

3. *Diatrype parvula* Berl. Micr. Tosc. in N. Giorn. botan. ital., 1892, 1644  
p. 109, t. VII, f. 2.

*Hab.* in ramulis exsiccatis Sarothamni scoparii in Monte Pisano Etruriæ (BECCARI). — Stroma 1 mm. diam.; perithecia polysticha 0,2-0,3 mm. diam.; asci 32-36  $\approx$  5-6, longissime stipitati; sporidia 7-9  $\approx$  2.

4. *Diatrype spongiosa* Pat. Bull. Soc. Myc. 1891, p. 173. 1645

*Hab.* in ramis corticatis Eucalypti, Quito Æquatoriæ (LAGERHEIM). — Stroma 1-2 mm. crass.; perithecia ovoidea; asci 20-25  $\approx$  8 longissime stipitati; sporidia 10-12  $\approx$  2-3, fuscicula. Habitus *Scoriæ spongiosæ*.

5. *Diatrype Macluræ* E. et E. North Am. Pyr. p. 570. 1646  
*Hab.* in ramis decorticatis *Macluræ aurantiacæ*, Canada (DEARNESS). — Stroma 2-10 mm. long. 1-2 mm. crass.; perithecia 0,5 mm. diam.; asci 40 ≈ 6 (p. sp.); sporidia 10-14 ≈ 3, flavida.
6. *Diatrype tumida* E. et E. North Am. Pyr. p. 567. 1647  
*Hab.* in cortice *Ulm*i, Canada (DEARNESS). — Stroma 3-4 mm. diam.; asci 40-55 ≈ 6-7, longe stipitati; sporidia 10-12 ≈ 2,5-3.
7. *Diatrype hullensis* E. et E. North Am. Pyr. p. 567. 1648  
*Hab.* in ligno putrescenti, Canada (MACOUN). — Stroma 4-5 mm. long.; perithecia 0,3 mm. diam.; asci 35-40 ≈ 5-6; sporidia hyalina-flavida, 8-11 ≈ 2-2,5
8. *Diatrype microstega* E. et E. North Am. Pyr. p. 574. 1649  
*Hab.* ad cortices in California (HARKNESS). — Stroma 0,7-1 mm. diam.; perithecia 1-5 in quoque stromate; asci 35-40 ≈ 6-7 (p. sp.); sporidia 10-12 ≈ 1,5-2, flavida.
9. *Diatrype bukobensis* P. Henn. F. Afr. II, p. 5. 1650  
*Hab.* in ramis emortuis, Bukoba pr. Victoria Njansa Africae. — Stromata pulvinato-disciformia; perithecia ovata; asci non visi; sporidia 10-13 ≈ 3-4, fuscicula.
10. *Diatrype artocreas* C. et M. Grev. XXI, p. 4. 1651  
*Hab.* in ligno putrescenti, St. Vincent in India occidentali. — Stroma 1-1,5 cm. lat.; perithecia monosticha; asci cylindracei; sporidia 10-12 ≈ 3,5, hyalina.

**DIATRYPELLA** Ces. et De Not. — Sylt. I, p. 200, IX, p. 477.

1. *Diatrypella prunicola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 344. 1652  
*Hab.* in ramis emortuis *Pruni pensylvanicæ*, Alcove N. Y. Amer. bor. (SHEAR). — Stroma 3-4 mm. diam., perithecia polysticha 110-150  $\mu$ . diam.; asci breve stipitati 65-70 ≈ 8-10; sporidia 5-6 ≈ 1, flavida.
2. *Diatrypella citricola* E. et E. North Am. Pyr. p. 587. 1653  
*Hab.* in ramis emortuis *Citri Aurantii*, Florida (UNDERWOOD). — Stroma 1-2 mm. diam.; perithecia 0,3 mm. diam.; asci 110-120 ≈ 10-12; sporidia 6-7 ≈ 1,5-2, ex hyalino flavida.
3. *Diatrypella Sassafras* E. et E. North Am. Pyr. p. 588. 1654  
*Hab.* in ramis emortuis *Lauri Sassafras*, Newfield, N. Y. Amer. bor. — Stroma 1-2 mm. diam.; perithecia 0,3-0,5 mm. diam.; asci longe stipitati, 100-110 ≈ 10; sporidia flavida, 6-7 ≈ 1,5-2.
4. *Diatrypella missouriensis* E. et E. North Am. Pyr. p. 586. 1655  
*Hab.* in ramis emortuis *Coryli Missouri* Amer. bor. (DEMB-

- TRIO). — Stroma 1,5 mm. diam.; perithecia 0,3 mm. diam.; asci 80  $\approx$  8; sporidia 5-6  $\approx$  1, hyalino-flavida.
5. *Diatrypella pulcherrima* E. et E. New sp. north Amer. Fung. in 1656  
Proceed. Acad. S. N. Philad. 1893, p. 144.  
*Hab.* in ramis emortuis Salicis, Canada (DEARNESS). — Stroma 1 mm. diam.; perithecia 0,2 mm. diam.; asci 30-35  $\approx$  8-10 (p. sp.); sporidia 8-12  $\approx$  1,5, hyalina.
6. *Diatrypella Underwoodii* Peck 46 Rep. p. 39. 1657  
*Hab.* in ramis emortuis « Mesquit » Texas Amer. bor. — Stroma 3-5 mm. lat.; perithecia 1-3 in quoque stromate; asci longe stipitati 70  $\mu$ . long.; sporidia 7  $\approx$  2.
7. *Diatrypella microsperma* Sacc. Fungi Abyss. p. 4, t. XX, f. 4. — 1658  
Stromatibus sparsis, exiguis, pulvinatis, levibus, innato-erumpentibus, peridermio fisso, adhærente cinctis, 0,7 mm. diam. intus atris; peritheciis globulosis, vix 0,2 mm. diam., ostiolis latentibus; ascis clavatis, obtusulis, 50-60  $\approx$  9, p. sp., in stipitem guttulatam 60  $\approx$  2 attenuatis, myriosporis; sporidiis dense conglobatis, exiguis, allantoideis, 4-5  $\approx$  1, melleis; paraphysibus nullis.  
*Hab.* in cortice leviusculo ignoto, M. Dongolla pr. Ghinda col. Erythrææ. — Species parvitate stromatum et sporidiorum præsertim dignoscenda.
8. *Diatrypella pauper* Ell. et Ev. Bull. Univ. Iowa 1893, p. 404. 1659  
*Hab.* in ramis emortuis Castillo viejo, Amer. centr. (SMITH). — Stroma 1-1,5 mm. diam.; perithecia bina-quaterna 0,3 mm. diam.; asci 55-60  $\approx$  10-11, longe stipitati; sporidia 5-9  $\approx$  1,5-2.

## Sect. 2. Phæosporæ

**CERATOSTOMA** (Fr.) Sacc. — Syll. I, p. 215, IX, p. 481.

1. *Ceratostoma corticolum* E. et E. in Proceed. Acad. N. Sc. Philad. 1660  
p. 444.  
*Hab.* in cortice interiore Ailanthi, Newfield N. J. Amer. bor. — Perithecia globosa 0,2 mm. diam., ostiolo æquilongo; asci 75  $\approx$  7-8; sporidia 12-14  $\approx$  6-7, brunnea.
2. *Ceratostoma Phœnicis* Roll. Bull. Soc. Myc. 1891, p. 96, t. VI, 1661  
fig. 4.  
*Hab.* in petiolis emortuis Phœnicis, Golfe Jouan Galliæ. — Perithecia globulosa, ostiolo 0,5 mm. long.; asci 30  $\approx$  20 (p. sp.); sporidia 12-15  $\approx$  6, brunnea.

3. *Ceratostoma setigerum* E. et Ev. North Am. Pyr. p. 190. 1662  
*Hab.* in ligno quercino putri, Ohio Amer. bor. (MORGAN). — Perithecia 0,3-0,5 mm. diam., ostiolo 0,7-1. mm. long.; asci 12-15  $\approx$  4 (p. sp.); sporidia 3  $\approx$  1,5, olivaceo-brunnea.
4. *Ceratostoma subrufum* E. et Ev. North Am. Pyr. p. 192, tab. XXII. 1663  
*Hab.* in ramis quercinis putrescentibus Newfield N. J. Amer. bor. — Perithecia 112  $\mu$ . diam., ostiolo 300  $\mu$ . long.; asci 10  $\approx$  6 (p. sp.); sporidia 4  $\approx$  3, brunnea.
5. *Ceratostoma stromaticum* Delacr. Bull. Soc. Myc. 1891, p. 105. 1664  
*Hab.* in cortice Juniperi communis Rigny-surArroux Gallia. — Perithecia 200  $\mu$ . diam., collo 400  $\mu$ . diam.; asci 21  $\approx$  5-6 (p. sp.); sporidia 3,5  $\mu$ . diam., fusca.
6. *Ceratostoma truncatum* Delacr. Bull. Soc. Myc. 1891, p. 105. 1665  
*Hab.* in ligno quercino carioso, Rigny-sur-Arroux Gallia. — Perithecia 0,5 mm. diam., setulosa, collo truncato; asci 50  $\approx$  5,5; sporidia 6  $\approx$  4, fusca.

**MICROASCUS** Zuk. — Syll. IX, p. 483.

1. *Microascus sordidus* Zuk. in Berichte d. Deutsch. bot. Gesellsch. 1666  
 1890, pag. 297, t. XVII, f. 14-19. — Peritheciis rubido-brunneis, membranaceo-rigidulis, 0,2-0,3 mm. diam., in collum papilliforme, rarius elongatulum desinentibus, subglabris v. parce pilosis; ascis piriformibus, in hyphis subramosis brevibus acrogenis, 13-15  $\approx$  12-13, octosporis; sporidiis conglobatis, ellipsoideis, inæquilateris, rufo-brunneis, 9-9,5  $\approx$  5-6.  
*Hab.* in foliis putridis Oleæ, sub campana vitrea cultus; etiam in stercore humano, Wien Austria.

**CHÆTOMIUM** Kunze — Syll. I, p. 220, IX, p. 484.

1. *Chætomium pallidum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 326. 1667  
*Hab.* in radice Dauci Carotæ fermentescenti, Canada (DEARNESS). — Perithecia pallida, 150-200  $\mu$ . diam.; asci 30-35  $\approx$  10-12; sporidia 14-18  $\approx$  10-12 brunnea, utrinque apiculata.
2. *Chætomium glabrescens* E. et E. in Proceed. Acad. S. N. Philad. 1668  
 1893, p. 130.  
*Hab.* in ramis putridis Salicis (?), Kansas (BARTHOLOMEW). — Perithecia 0,7 mm. diam.; asci non visi; sporidia 8-10  $\approx$  6-7, leviter compressa.

**HYPOCOPRA** Fuck. — Syll. I, p. 240, IX, p. 490.

1. *Hypocopra sphærospora* (E. et E.) Sacc., *Sordaria* E. et E. Pyr. 1669  
North Am. p. 128.

*Hab.* in stercore canino, Newfield N. J. Amer. bor. — Perithecia 250-300  $\mu$ . diam.; asci 150-160  $\approx$  18-20; sporidia 20-22  $\approx$  18-20, atro-brunnea, halone hyalino cincta.

**ROSELLINIA** De Nöt. — Syll. I, p. 252, IX, p. 495.

1. *Rosellinia gigaspora* Ell. et Ev. Bull. Univ. Jowa 1893, p. 401. 1670

*Hab.* in culmo emortuo Castillo, viejo Amer. centr. (SMITH). — Perithecia 1-1,5 mm. diam.; asci jam resorpti; sporidia 55-62  $\approx$  10-12, brunnea.

2. *Rosellinia gigantea* Ell. et Ev. Bull. Univ. Jowa p. 401. 1671

*Hab.* ad cortices Castillo viejo Amer. centr. (SMITH). — Perithecia 2,5-3,5 mm. diam.; asci 250-270  $\approx$  8; sporidia fuscoidea curvula, 40-60  $\approx$  6-8, olivacea dein atra.

3. *Rosellinia canzacotoana* Pat. Bull. Soc. Myc. 1893, p. 151. 1672

*Hab.* in corticibus, Canzacoto Æquatoriæ (LAGERHEIM). — Perithecia globosa, 0,5-0,7 mm. diam.; asci non visi; sporidia 40-45  $\approx$  10, ealcârata, brunnea.

4. *Rosellinia palustris* Schröt. Pilze Schles. II, p. 299. 1673

*Hab.* ad terram udam inter Algas gelatinosas in Silesia. — Perithecia 0,5-0,6 mm. lat.; asci 260-360  $\approx$  10-11; sporidia 27-35  $\approx$  10, atro-brunnea.

5. *Rosellinia ostiolata* Ell. et Ev. Proc. Acad. Phil. 1894, p. 327. 1674

*Hab.* in cortice Ulmi americanæ, Kansas (BARTHOLOMEW). Perithecia 0,7 mm. diam.; asci 150  $\approx$  25; sporidia rhomboidea, 25-38  $\approx$  20-22, brunnea.

6. *Rosellinia bicolor* Ell. et Ev. Proc. Acad. Phil. 1894, p. 327. 1675

*Hab.* in ligno putri, Louisiana Amer. bor. (LANGLOIS). — Perithecia 0,5 mm. diam.; asci 125-140  $\approx$  8; sporidia 20-23  $\approx$  6-7, brunnea.

7. *Rosellinia megalœcia* E. et E. in Proceed. Acad. S. N. Philad. 1876  
1893, p. 128.

*Hab.* in trunco emortuo Salicis, Sheridam Mont. Amer. bor. (LYDIA FISCH). — Perithecia 1,5 mm. diam.; asci 100  $\approx$  6-7, p. sp.; sporidia 15-20  $\approx$  7-8, brunnea, non appendiculata.

8. *Rosellinia pulcherrima* E. et E. New West Amer. Fung. in Eri- 1677  
thea p. 197.

*Hab.* in cortice pineo ad terram, Seattle Wash. Amer. borealis (PARKER). — Perithecia 1-1,2 mm. diam.; asci 110-120  $\approx$  7-8;

sporidia 14-16  $\approx$  3,5-4,5 utrinque hyalino-appendiculata, brunnea.

9. *Rosellinia Sarothamni* Schröt. Pilze Schles. II, p. 300. 1678

*Hab.* in ramis *Sarothamni scoparii* in Silesia. — Perithecia 0,4 mm. lat.; asci 130-140  $\approx$  7-9; sporidia 13-16  $\approx$  7-9, atro-brunnea.

10. *Rosellinia limonisporea* Ell. et Ev. Proc. Acad. Phil. 1894, p. 326. 1679

*Hab.* in foliis putridis *Fraxini*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 0,7 mm. diam.; asci 70-75  $\approx$  9 (p. sp.); sporidia limoniformia, 12-15  $\approx$  7-8, atro-brunnea.

11. *Rosellinia chætomioides* Schröt. Pilze Schles. II, p. 302. 1680

*Hab.* in fimo vaccino vetusto in Silesia. — Perithecia 0,1 mm. diam.; asci 50-55  $\approx$  8-9; sporidia 11-13  $\approx$  7-8, atro-brunnea.

12. *Rosellinia cæspitosa* Ell. et Ev. Proc. Acad. Phil. 1894, p. 327. 1681

*Hab.* in ramis emortuis *Celtidis occidentalis*, Kansas (BARTHOLOMEW). — Perithecia 175-200  $\mu$ . diam.; asci 60-70  $\approx$  8; sporidia 9-13  $\approx$  6-7, brunnea.

13. *Rosellinia melaleuca* Ell. et Ev. Bull. Univ. Jowa p. 402. 1682

*Hab.* in ligno putrescenti, Ometepe in Amer. centr. (SMITH). — Perithecia 0,5-0,7 mm. diam.; asci 50  $\approx$  5; sporidia 8-10  $\approx$  4, brunnea.

14. *Rosellinia pinicola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 327. 1683

*Hab.* in assere pineo aëri diu exposito, Kansas (BARTHOLOMEW). — Perithecia 0,2 mm. diam.; asci 60-65  $\approx$  4 (p. sp.); sporidia 5-8  $\approx$  3-4, brunnea.

# **ANTHOSTOMELLA** Sacc. — Syll. I, p. 278, IX, p. 505.

1. *Anthostomella Quercus* Passer. Fung. nov. ser. V, n. 2. — Peri- 1684

theeciis gregariis, globosis, vertice depressis, vix papillatis, fuscis, per corticem longitudinaliter fissum erumpentibus; ascis paraphysatis, cylindricis, basi attenuatis, 8-sporis, 100  $\approx$  8; sporidiis monostichis ellipticis, primo hyalinis vel flavidis, uni-rarius biguttulatis, tandem olivaceo-fuligineis, 12  $\approx$  8.

*Hab.* in ramulis siccis *Quercus*, Collecchio, Parma Ital. bor.

2. *Anthostomella Lepidospermæ* Cooke Grev. XX, p. 5. — Perithe- 1685

ciis maculis elongatis pallidis brunneo-cinctis innatis, tectis, dein erumpentibus; ascis breve stipitatis; sporidiis elongato-ellipsoideis, biseriatis, utrinque rotundatis, continuis, pallide brunneis, 14  $\approx$  4.

*Hab.* ad ramos *Lepidospermæ*, Victoria Australiæ (MARTIN).

3. *Anthostomella vaga* Niessl Hedw. 1887, p. 33.

1686

*Hab.* in ramulis deciduis *Clematidis Vitalbæ*, Salisburg.

— *Perithecia* minuta, globosa; asci 78-80  $\approx$  7-8; sporidia 10-14  $\approx$  6-7, fusca.

4. *Anthostomella suberumpens* Ell. et Ev. Proc. Acad. Phil. 1894, 1687 p. 338.

*Hab.* in cortice interiore Ulmi, Kansas Amer. bor. (BARTHOLOMEW). — *Perithecia* 250-320  $\mu$ . diam.; asci 90-110  $\approx$  7-8; sporidia 12  $\approx$  6-8, brunnea.

5. *Anthostomella mammoides* E. et E. in Proceed. S. N. Philad. 1893, 1688 p. 139.

*Hab.* in ramis emortuis *Ostryæ virginicæ*, London Canada (DEARNESS). — *Perithecia* 0,5 mm. diam.; asci 110-120  $\approx$  12-15; sporidia 15-22  $\approx$  10-13, brunnea.

6. *Anthostomella hypsophila* Ell. et Ev. Proc. Acad. Phil. 1894, p. 338. 1689

*Hab.* in sarmentis emortuis *Lonicerae involucratae*, Cameron Pass, N. W. Colo. Amer. bor. (BAKER). — *Perithecia* 0,3-0,5 mm. diam.; asci 90-110  $\approx$  12; sporidia opace brunnea, 15-18  $\approx$  8-10.

7. *Anthostomella constipata* (Mont.) Sacc. Fungi herb. Brux. n. 13. 1690

*Sphaeria Smilacis* Cast. Cat. Mars, p. 169, *Sphaeria constipata* Mont. Ann. Sc. Nat. Bot. 1849, p. 43, Cast. suppl. p. 49 [in Herb. Brux.], Desm. XIII, Not. pag. 73 (1846), *Leptosphaeria Smilacis* (Cast.) Sacc. Syll. II, p. 69.

*Hab.* in sarmentis *Smilacis*, Montaud-les-Miramas Galliae (CASTAGNE). — Asci octospori, 90-100  $\approx$  9-10; sporidia ellipsoidea, fuliginea, omnino continua, 1-2-guttata, 15  $\approx$  8, halone hyalino 3  $\mu$ . cr; diu cincta. Guttæ majusculæ, sub vitro parum argente, septa simulant; hinc error Castagnei et Desmazieri, qui sporidia 1-2-septata describunt. Mirum quoque quod de halone manifestissimo sileant. *Anth. Smilacis* Fabre forma et magnitudine sporidiorum satis recedere videtur.

8. *Anthostomella Rhizomorphæ* (Kunze) Berl. et Vogl. in Sacc. Syll. 1691

IX, pag. 508, Sacc. Fung. herb. Bruxell. n. 12, *Sphaeria Rhizomorphæ* Kunze in sched. [in Herb. Brux.]. — *Peritheciis* gregaris, hypophyllis, globosis, majusculis, 0,5 mm. diam., duriusculis, apice obtuso, centro papillulato erumpentibus, atris, fusoides v. fusoides-teretibus, 90-120  $\approx$  20, breviter stipitatis, filiformi-paraphysatis, 8-sporis; sporidiis elliptico-fusoides, rectis, murinò-fuliginis, 30  $\approx$  12-14, episporio v. halone pallidioris, sæpius secedenti.

*Hab.* in foliis coriaceis, Surinam (WIEGELT). — Cur species nominetur « *Rhizomorphæ* », omnino latet.



9. *Anthostomella cornicola* E. et E. New West Amer. Fung. in Ery. 1692  
thea p. 198.

*Hab.* in ramis emortuis Corni, Seattle Wash. Amer. bor. (Parker). — *Perithecia* globosa, 0,7 mm. diam.; asci 150  $\approx$  8, p. sp.; sporidia 20-22  $\approx$  7-8, opaca, initio halone et appendice hyalinis aucta.

**TYMPANOPSIS** Starb. Stud. Fries' svampherb. p. 24 (Etym. *tympa-*  
*non*). — *Perithecia* carbonacea, polyhedrico-verrucosa, subsphæroi-  
dea dein collapsio-cupularia, basi hyphis fuscis obsessa; asci para-  
physati 8-spori; sporidia ellipsoidea, continua, olivacea.

1. *Tympanopsis euomphala* (B. et C.) Starb. l. c. fig. 12 a-d. Bo. 1693  
*tryosphæria* (B. et C.) Sacc. Syll. I, p. 462, *Nitschkia* Ell. et Ev.  
Pyr. N. A. p. 246. Asci stipitati 26-32  $\approx$  10-12, stipite 8-12  $\mu$   
long.; sporidia 6-8  $\approx$  3-4,5.

**ANTHOSTOMA** Nits. — Syll. I, p. 293, IX, p. 514.

1. *Anthostoma micræcium* Ell. et Ev. Proc. Acad. Phil. 1894, p. 344. 1694

*Hab.* in ramis emortuis *Asimina triloba*, Nuttallburg West  
Va. Amer. bor. (NUTTALL). — *Perithecia* 200-250  $\mu$ . diam.; asci 80-  
100  $\times$  8-10; sporidia 12-14  $\times$  6-7, brunnea.

2. *Anthostoma pulviniceps* Peck in Ell. North Am. Pyr. p. 578. 1695

*Hab.* in ramis emortuis *Sambuci canadensis*, New York  
Amer. bor. (PECK). — *Perithecia* 8-12 in quaque pustula; asci cla-  
vati; sporidia 10-15  $\mu$ . longa, ellipsoideo-fusoidea, fusca.

3. *Anthostoma formosum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 344. 1696

*Hab.* in cortice emortuo *Celtidis occidentalis*, Kansas  
Amer. bor. (BARTHOLOMEW). — *Perithecia* 1 mm. diam.; asci 60-  
70  $\approx$  4-5 p. spor.; sporidia 7-10  $\approx$  3-4, brunnea.

**XYLARIA** Hill — Syll. I, p. 309, IX, p. 523.

1. *Xylaria citrina* Massee Journ. of Bot. 1892, p. 163, t. 322, f. 20-23. 1697

*Hab.* ad ligna denudata, Morne Cochon Indiæ occid. (ELLIOTT).  
— Stroma 1-2 cm. alt., strato conidioph. citrino vestitum; asci  
cylindrici; sporidia fusca 10  $\approx$  4-5. Affinis *X. pallidæ*.

2. *Xylaria Bonii* Pat. Journ. Bot. 1891, p. 319. 1698

*Hab.* ad terram Ke So, Tonkin (Bon). — *Perithecia* 200-300  $\mu$ .  
diam. (immatura); stroma conidiis fuscoideis citrinis 8-10  $\approx$  2-2,5  
tectum.

3. *Xylaria badia* Pat. Journ. Bot. 1891, p. 319. 1699

*Hab.* ad ligna putrescentia, Ke So, Tonkin. — A *X. corniformi* differt substantia fulva nec alba et clavulis conidiophoris rufo-villosis; asci  $100 \approx 8$ ; sporidia  $10-12 \approx 5$  fuliginea.

4. *Xylaria teres* Sacc. *Xylaria cylindrica* Ell. et Ev. Bull. Univ. 1706  
Jowa 1823, p. 414, nec Lév.

*Hab.* in corticibus, Ometepe et Castillo viejo Americæ centr. (SMITH). — Minor quam *X. mucronata* et sporidiis  $8-11 \approx 3,5-4$ ; stroma 1,5 cm. alt.

5. *Xylaria rhizophila* Cooke et Mass. in Grev. V. 22, p. 37. 1701

*Hab.* in radicibus Graminum, Queensland Australiæ (BAILEY). — Stroma clavatum in 2-6 clavulas divisum, 3-5 cm. alt. 5-7 mm. lat.; asci cylindrici; sporidia brunnea,  $8-10 \approx 2-3$ .

6. *Xylaria nigripes* Kl. — Syll. IX, p. 527. — var. *trifida* Pat. Journ. 1702  
Bot. 1891, p. 317, t. IV, f. 4.

*Hab.* ad caudices emortuos, Ke So, Tonkin. — A typo differt quia gracilior, clavula trifida v. trilobata; sporidiis brunneis  $4 \approx 2$ .

7. *Xylaria scoparia* Pat. Journ. Bot. 1891, p. 318, t. IV, f. 2. 1703

*Hab.* ad ligna putrescentia, Tonkin. — Cæspitosa, 3-6 cm. alta; perithecia subsuperficialia; asci breves; sporidia  $3 \approx 2$ , brunnea.

8. *Xylaria flexuosa* Pat. Journ. Bot. 1891, p. 318, t. IV, f. 2. 1704

*Hab.* ad ligna putrescentia, Tonkin. — Stipes 3-4 cm. long., clavulæ 5-6 cm. long.; perithecia contextu citrino immersa; sporidia  $5-6 \approx 4$ , brunnea.

9. *Xylaria cirrata* Pat. Journ. Bot. 1891, p. 318, t. IV, f. 1. 1705

*Hab.* ad truncos emortuos, Tonkin. — Stroma 12-20 cm. alt.; perithecia prominula globulosa, atra; sporidia fuliginea,  $6 \approx 3-4$ .

10. *Xylaria xanthorrhiza* Pat. Bull. Boiss. 1895, p. 68. 1706

*Hab.* ad terram ustam in fragmentis ligneis, Pululahua Æquatorix. — Clava brunnea, teres, 10-15 mm. alt., 1-2 mm. cr., tantum conidiophora visa, apice cinereo, conidiis  $3 \approx 1,5$ ; mycelium flavo-crocatum.

11. *Xylaria obtusissima* (Berk.) Sacc. Syll. I, p. 318. — var. *togoensis* P. Henn. F. Afr. II, p. 6. 1707

*Hab.* ad ligna, Togo Africæ (BÜTTNER). — Stroma 5 cm. long., 15 mm. lat.; perithecia ovoidea; sporidia  $9-11 \approx 4$ .

12. *Xylaria luzonensis* Henn. Fung. Warburg. p. 225, t. VII. 1708

*Hab.* in leguminibus putridis Afzelix bijugæ, N. Luzon Philipp. (WARBURG). — Stromata 4 cm. long., 2-3 mm. cr.; asci  $70-90 \approx 5-6$ ; sporidia  $7-9 \approx 4-5$ . E sect. *Thamnomycetis*.

13. *Xylaria Warburgii* Henn. Fung. Warburg. p. 224, t. VIII, f. 2. 1709

*Hab.* in fructibus putridis Sloanæ in Nova Guinea (WARBURG). — Stroma 5 cm. long.; asci cylindraceuti; sporidia 10-12 = 4,5-5,5 atro-fusca. E sect. *Thamnomycetis*.

14. *Xylaria Chamissonis* (Ehrenb.) Sacc. Syll. I. p. 343. — var. *cameroensis* P. Henn. F. Afr. I, p. 368. 1710

*Hab.* ad ligna (?), Camerum Africæ. — Stromata 5 cm. alt., 1 mm. cr.; perithecia parca, compressa. — E sect. *Thamnomycetis*.

15. *Xylaria Schwackei* P. Henn. Fung. goyaz. p. 108. 1711

*Hab.* ad ramos emortuos in silvis, Goyaz et Rio de Janeiro Brasilæ (SCHWACKE et ULE). — Stroma erectum, filiforme, atrum, 3 cm. long., vix 0,5 cr.; perithecia libera, lateritia, 0,5 mm. diam.; asci 100-110 × 6-8; sporidia 12-14 × 4-5, atro-brunnea. — E sect. *Thamnomycetis*.

**PORONIA** W. — Syll. I, p. 349, IX, p. 542.

1. *Poronia Ehrenbergii* P. Henn. F. Æthiop. I, p. 118 et in Engl. bot. Jahrb. XVII, p. 5, t. I, f. 1. 1712

*Hab.* ad terram arenosam in Arabia (EHRENBERG). — Stroma 15 cm. long., 2 mm. crass.; asci 160-180 = 20-25; sporidia 30-40 = 16-21, atro-fusca.

2. *Poronia turbinata* Ell. et Ev. Bull. Univ. Journ. 1893, p. 410. 1713

*Hab.* in cortice tenui ramorum, Castillo viejo Americæ centr. (SMITH). — Stroma 3 mm. lat. et alt.; perithecia 0,5-0,7 mm. diam.; asci 75 = 6-7; sporidia 12-14 = 5-6, olivacea.

3. *Poronia Doumetii* Pat. Rev. Myc. 1893, p. 136. 1714

*Hab.* ad terram arenaceam in Tunisia. — Stroma 1-1,5 cm. diam.; asci 130 = 10; sporidia 15 = 9, fuliginea. Inter *Poroniam* et *Xylariam* media.

**USTULINA** Tul. — Syll. I, p. 350, IX, p. 542.

1. *Ustulina linearis* Rehm Hedw. 1892, p. 310. 1715

*Hab.* ad truncum Betulæ in Palmario Horti botanici berolinensis (SYDOW). — Stroma 0,2-2 mm. long., 0,2-0,5 cm. lat.; asci 80-90 = 6; sporidia 10 = 5, fusco-nigra.

**HYPXYLON** Bull. — Syll. I, p. 352, IX, p. 543.

1. *Hypoxylon Morgani* E. et E. North Amer. Pyren. 648. 1716

*Hab.* ad ligna putrescentia, Ohio Amer. bor. (MORGAN). — Stroma 1-3 cm. long.; peritheci 0,7 mm. diam.; asci 150 = 10-12; sporidia 35-38 = 10-12, brunnea.

2. **Hypoxylon Büttneri** P. Henn. F. Afric. p. 366. 1717  
*Hab.* ad cortices, Togo Africæ (BÜTTNER). — Stroma hemisphærico-globosum; perithecia vix 1 mm. diam.; asci 150-300  $\approx$  11-20; sporidia 16-35  $\approx$  10-17, fusco-brunnea.
3. **Hypoxylon atosphæricum** C. et Mass. Grev. XXII, p. 68. 1718  
*Hab.* ad cortices, Queensland Australiæ (BAILEY). — Stroma sub globosum 2 mm. diam.: asci cylindrici; sporidia 22  $\approx$  6. E sect. *Sphæroxylon*.
4. **Hypoxylon occidentale** Ell. et Ev. Proc. Acad. Phil. 1894, p. 345. 1719  
*Hab.* in ramis et truncis émortuis Pasadena Californiæ (MAC CLATCHIE). — Stroma 2-10 cm. diam.; perithecia circ. 1 mm. diam.; asci 120-150  $\approx$  6-7; sporidia 14-16  $\approx$  6-7. Habitus *Daldinia concentricæ*.
5. **Hypoxylon papillatum** Ell. et Ev. Bull. Univ. Jowa 1893, p. 408. 1720  
*Hab.* ad ligna putrida variarum arborum, Kansas, Canada, Ohio, Delaware, Louisiana, Nicaragua. — Stroma 4-6 cm. long., 2-4 cm. lat., 3-4 mm. crass.; perithecia oblonga 1-1,5 mm. long.; asci 70-90  $\approx$  6; sporidia 10-12  $\approx$  4,5-6, olivacea.
6. **Hypoxylon lilacino-fuscum** Bres. F. Trid. II, p. 43, t. 149, f. 1. 1721  
*Hab.* in cortice truncorum Ulmi pr. Tridentum. — Stroma lilacino-fuscum, elongatum; perithecia 0,5-0,6 mm. lat.; asci 160-200  $\approx$  5-8; sporidia 10-13  $\approx$  5-5,5 fusca.
7. **Hypoxylon subluteum** E. et E. North Amer. Pyr. 648. 1722  
*Hab.* ad ligna putrida pr. St. Martinsville La. Amer. boreali (LANGLOIS). — Stroma 5 cm. long., 2 cm. lat. 1 mm. crass.; perithecia 0,7 mm. diam.; asci 75-80  $\approx$  6 (p. sp.); sporidia 10-12  $\approx$  4-4,5, fuliginea.
8. **Hypoxylon nicaraguense** Ell. et Ever. Bull. Univ. Jowa 1893, p. 407. 1723  
*Hab.* ad ligna putrescentia, Ometepe et Castillo viejo Amer. centr. (SMITH). — Stroma discoideum 2-3 cm. diam.; perithecia oblonga 1 mm. long., 0,6 mm. lat.; asci 60  $\approx$  7; sporidia 8-12  $\approx$  3,5-5 pallide brunnea.
9. **Hypoxylon cinereum** E. et E. North Amer. Pyren. p. 647. 1724  
*Hab.* in lignis putridis pr. St. Martinsville La. Amer. bor. (LANGLOIS). — Stroma 3-4  $\approx$  1 cm.; perithecia 200  $\mu$ . diam.; asci jam elapsi; sporidia 8-10  $\approx$  3,5-4, opaca.
10. **Hypoxylon discoideum** E. et E. New Fung. Proceed. Acad. Sc. Philad. 450. 1725  
*Hab.* ad cortices ramorum Rhois Toxicodendri Newfield

N. J. Amer. bor. — Stroma 2-3 mm. diam.; sporidia 8-11 = 3-3,5.

11. *Hypoxylon Nuttallii* Ell. et Ever. Proc. Acad. Phil. 1894, p. 346. 1726

*Hab.* ad cortices emortuas Magnoliæ Fraseri, Nuttallburg West. Va Amer. bor. (NUTTALL). — Stroma 3-6 mm. diam., atropurpureum; asci jam resorpti; sporidia 7-8 = 3-4, brunnea.

12. *Hypoxylon annuliforme* Rehm in Verh. bot. Ver. Brand 1890, 1727 pag. 65.

*Hab.* ad cortices pr. Gabun Africæ (BÜTTNER). — Stroma 1 cm. diam.; perithecia globosa yix 1 mm. diam.; asci 90-100 = 5-6; sporidia 7-8 = 2,

13. *Hypoxylon atro-rufum* E. et E. North Am. Pyr. p. 742. 1728

*Hab.* ad cortices putres Quercus? Michigan Amer. bor. (HICKS). — Stroma 2-3 mm. diam.; perithecia 0,5 mm. long.; asci 100 = 5: sporidia 6-7 = 3, brunnea.

14. *Hypoxylon platystomum* E. et E. North Am. Pyr. p. 649. 1729

*Hab.* in ramulis dejectis Meliæ, St. Martinsville La. Amer. bor. (LANGLOIS). — Stroma 6 cm. diam., 1 mm. crass.; perithecia 0,7 = 0,5 mm.; asci 50-55 = 4; sporidia 5-6 = 2,5-3, pallide brunnea.

15. *Hypoxylon ohlense* E. et E. North Amer. Pyr. p. 648. 1730

*Hab.* in lignis putridis, Ohio Amer. bor. (MORGAN). — Stroma 2 mm. crass.; perithecia 1 = 1,2 long.; asci clavati 22 = 6 (p. sp.); sporidia 4-5 = 2,5, brunnea.

16. *Hypoxylon atro-viride* Ell. et Ev. Proc. Acad. Phyl. 1894, p. 346. 1731

*Hab.* in cortice putri Betulæ v. Quercus, Nuttallburg, West Va. Amer. bor. (NUTTALL). — Stroma 1-1,5 cm. lat., 4 mm. crass.; asci 100 = 3,5-4; sporidia 4,5-5,5 = 2, pallide brunnea.

17. *Hypoxylon cylindrophorum* Ell. et Ev. Bull. Univ. Jowa 1893, 1732 p. 406.

*Hab.* in ligno sicco indurato, Ometepe Amer. centr. — Stroma pulvinatum, 2 = 1 cm.; perithecia cylindrica; asci 20-25 = 3 (p. sp.); sporidia 3-3,5 = 2, pallide brunnea.

# KRETZSCHMARIA Fr. — Syll. IX, p. 565.

1. *Kretzschmaria Pechuellii* P. Henn. F. Afric. I, p. 365. 1733

*Hab.* in truncis putrescentibus, Loango Africæ (PECHUEL-LÖSCHE). — Stromata peritheciigera cæspitosa 2-3 mm. alt.; asci octospori; sporidia 26-29 = 7-12.

2. *Kretzschmaria novo-guineensis* Henn. F. Novo-guineens. p. 7. 1734

*Hab.* in truncis putrescentibus in Nova Guinea. — Stroma cæ-

spitosum 3-6 mm. alt.; asci cylindraceo-clavati; sporidia 23-40  $\approx$  2-10

3. *Kretzschmaria pusilla* Ell. et Ev. Bull. Univ. Jowa 1893, p. 410. 1735

*Hab.* in truncis emortuis Castillo viejo Amer. centr. (SMITH).  
— Capitulum 2 mm. diam.; stipes ?-4 mm. long.; perithecia 0.7 mm. diam; asci jam elapsi; sporidia 20-22  $\approx$  6.

4. *Kretzschmaria paradoxa* Pat. Bull. Soc. Myc. 1892, p. 50. 1736

*Hab.* in cortice Mangiferæ indicæ, Ke-so, Tonkin. — Stroma 10-15 cm. long. valde ramosum; perithecia ovoidea; asci non visi. Adest forma conidiophora.

**DALDINIA** De Not. — Syll. I, p. 393.

1. *Daldinia Warburgii* Henn. Fung. Warburg. p. 225, tab. 8, f. 4. 1737

*Hab.* ad truncos in Asia orientali (WARBURG). — Stroma depresso-globosum 2-3 cm. diam.; asci 220-270  $\approx$  11-14; sporidia 28-36  $\approx$  8-12.

**NUMMULARIA** Tul. — Syll. I, p. 395, IX, p. 569.

1. *Nummularia lataniæcola* Rehm et Bref. Unters. X, p. 255, t. IX, 1738  
f. 1-3 et in Lindau Pilzfl. Westf. p. 30.

*Hab.* in palmario Horti botanici Münster Germaniæ. — Stroma 0,5-1,5 mm. long., 5 mm. lat. discoideum; perithecia 1 mm. long.; asci 118-136  $\approx$  9-11; sporidia 12-16  $\approx$  7-8, nigro-fusca.

2. *Nummularia lateritia* E. et E. New sp. North Amer. Fung. in Pro- 1739  
ceed. Acad. S. N. Philad. 1893, p. 144.

*Hab.* in cortice putri Fraxini sambucifoliæ, London Canada (DEARNESS). — Stroma discoideum 0,5-1 cm. diam., 1 mm. crass.; perithecia 0,3-0,5 mm. long.; asci 100-120  $\approx$  8; sporidia 10-12  $\approx$  4-5, atro-brunnea.

3. *Nummularia cinerea* Pat. Bull. Boiss. 1895, p. 68. 1740

*Hab.* in lignis emortuis, Pululahua Æquatoriæ. — Stroma applanatum 5-8 mm. diam., atro-carbonaceum; perithecia immersa 300-350  $\mu$ . diam.; asci 80  $\approx$  5; sporidia fusco-brunnea, 8-10  $\approx$  3-4.

4. *Nummularia rufa* Ell. et Ev. Bull. Univ. Jowa 1893, p. 406. 1741

*Hab.* ad cortices Ometepe Amer. centr. (SMITH). — Stroma 1 mm. crass., effusum; perithecia 0,3 mm. diam.; asci 60-70  $\approx$  3; sporidia 3,5-4,5  $\approx$  2-2,5, pallide brunnea.

5. *Nummularia vernicosa* Ell. et Ev. Bull. Univ. Jowa 1893, p. 406. 1742

*Hab.* in cortice tenuiore ramorum, Castillo viejo Amer. centr. (SMITH). — Stroma 1 mm. crass.; perithecia 0,3-0,5 mm. diam.; asci non visi.

## Sect. 3. Hyalosporæ.

**CERATOSTOMELLA** Sacc. — Syll. I, p. 408, IX, p. 573.

1. *Ceratostomella investita* (Schw.) Starb. Stud. 26, f. 3, *Sphæria* 1743 Schw. Syll. II, p. 414. — Asci 50-60  $\approx$  6-8; sporidia hyalina, 6-8  $\approx$  3-4 (In lignis cariosis).
2. *Ceratostomella microspora* E. et E. New Fung. in Proceed. Acad. 1744 N. Sc. Philad. 1893, p. 444.

*Hab.* in ramis putrescentibus fagineis, Alcove N. Y. Amer. bor. (Sacc.). — Perithecia 150  $\mu$ . diam. ostiolo 200-300  $\mu$ . long.; asci 16  $\approx$  3; sporidia hyalina, 3  $\approx$  0,5-0,7, suballantoidea.

3. *Ceratostomella echinella* E. et E. North Am. Pyr. p. 195. 1745

*Hab.* in cortice interiore Aceris, N. Y. et Ohio Amer. bor. — Perithecia 250  $\mu$ . diam., ostiolo 1 mm. long.; asci 25-30  $\approx$  4-5; sporidia 3-4  $\approx$  1, curvula, hyalina.

**GNOMONIELLA** Sacc. — Syll. I, p. 413, IX, p. 575.

1. *Gnomoniella caulicola* Bäumler F. Schemnitz. III, p. 5. 1746

*Hab.* in caulibus emortuis Lavateræ thuringiacæ pr. Schemnitz. — Perithecia 250-300  $\mu$ . diam., ostiolo 150-180  $\approx$  50; asci 35-46  $\approx$  6; sporidia 12-14  $\approx$  2, hyalina.

2. *Gnomoniella cilicifera* (Fr.) Starb. Stud. p. 26, *Sphæria* Fr. — Syll. 1747 II, p. 434.

**LÆSTADIA** Auersw. — Syll. I, p. 421, IX, p. 577 — *Guignardia* Viala et Rav. Bull. Soc. mycol. 1892, p. 63, *Carlia* Bonord., nec Rabenh. \*).

1. *Læstadia Alchemillæ* Rostr. Till. Grönl. Svamp. p. 615. 1748

*Hab.* in foliis exsiccatis Alchemillæ vulgaris in Groenlandia. — Perithecia lenticulara; asci 33-40  $\approx$  6-7; sporidia 9-10  $\approx$  3-4.

2. *Læstadia Mespili* Fautr. Rev. Myc. 1892, p. 4. 1749

*Hab.* in foliis Mespili germanicæ, Côte-d'Or Galliæ. — Pe-

\*) Cl. doct. P. Magnus in *Österr. bot. Zeitschr.* 1894 n. 6, forte non immerito contendit, nomen *Carlia* Bonorden (1864) [nec Rabenh. (1857)] pro *Læstadia* Auersw. (1869) [nec Lessing (1832)] esse jure prioritatis adhibendum. Hic vero non expedit sine necessitate tot species novo nomine salutare. Nihil revera obstat, ut jam monui, quod fungum *Læstadium*, phanerogamam autem *Lestadium* vocare pergamus.



rithecia papillata, mox collabentia; asci 50  $\approx$  8; sporidia cymbiformia, 10  $\approx$  3, hyalina.

3. *Læstadia Illicis* Jaczewski. Cfr. Bot. Centralbl. 1893, I, p. 404. 1750

*Hab.* in foliis Illicis Aquifolii in Helvetia. — Perithecia globoso-discoidea; asci 80–90  $\approx$  12; sporidia 20–25  $\approx$  6, hyalina.

4. *Læstadia rubescens* E. et E. North Am. Pyr. p. 259. 1751

*Hab.* in foliis dejectis Castaneæ Newfield N. I. Amer. bor. — Perithecia 75–80  $\mu$ . diam.; asci 40  $\approx$  6; sporidia 5–6  $\approx$  3,5–4, hyalina.

5. *Læstadia Spartii* Passer. Fung. nov. ser. V, n. 3. — Peritheciis 1752

gregariis, minutis epidermide tectis subglobosis, ostiolo punctiformi; ascis clavatis vel etiam obclavatis, paraphysatis, 8-sporis, 40–62  $\approx$  10–12,5; sporidiis fusiformibus vel clavatis, distichis aut subtristichis, continuis, hyalinis, 15–20  $\approx$  4–5.

*Hab.* in ramulis emortuis Spartii juncei, Majatico, Parma Ital. bor. — *Læstadium Epilobii* Auersw. appropinquare videtur.

6. *Læstadia lunulata* Rostr. Bidr. Ascom. Dovr. p. 6. 1753

*Hab.* in caulibus emortuis Compositarum (Erigeronis?) in Norvegia. — Perithecia 150  $\mu$ . diam.; asci 50–60  $\approx$  12–13; sporidia lunulata, 14–18  $\approx$  5–6, hyalina.

7. *Læstadia scabiosa* Lamb. et Fautr. in Rev. Myc. 1894, p. 161. 1754

*Hab.* in caulibus siccis Scabiosæ Columbariæ in Gallia. — Perithecia 100  $\mu$ . diam.; asci 40–45  $\approx$  10–12; sporidia 9–12  $\approx$  5–6.

8. *Læstadia Gentianæ* Rehm in Wegel. Beitr. Pyr. Schweiz. p. 2, 1755  
t. I, f. 5–6.

*Hab.* in caulibus siccis Gentianæ luteæ pr. Solothurn Helvetiæ. — Perithecia 120–190  $\mu$ . diam.; asci 42–52  $\approx$  12–14; sporidia 15–22  $\approx$  4,5–5,5, hyalina.

9. *Læstadia Litseæ* (B. et Br.) Cooke Grev. XX, p. 65, *Sphærella* 1756  
B. et Br. in Herb.

*Hab.* in foliis Litseæ, Queensland Australiæ. — Perithecia punctiformia; asci clavati; sporidia ellipsoidea 20–30  $\mu$ . long. hyalina.

10. *Læstadia castanicola* E. et E. North Am. Pyr. p. 259. 1757

*Hab.* in foliis dejetis Castaneæ, Newfield N. J. Amer. bor. — Perithecia 200–250  $\mu$ . diam.; asci 60  $\approx$  10; sporidia 10–12  $\approx$  5–6 hyalina.

11. *Læstadia Sparti* Boy et Jacz. Mat. Myc. Montpell. p. 30, fig. 5, 1758  
(*Carlina*).

*Hab.* in culmis Lygei Sparti, Grammont pr. Montpellier. — Perithecia perexigua poro pertusa; asci 50  $\approx$  32–35; sporidia ovoideo-oblonga, 25  $\times$  10, hyalina, continua.

12. *Læstadia echinophila* (Schw.) Sacc. Syll. I, p. 425, *Phomatospora echinophila* (Schw.) Cooke Grev. XX, p. 87, *Sphæria echinophila* Schw. Amer. Bor. 1755, Syll. II, p. 431. — Species Cesatiana (cfr. Syll. I, p. 425) eadem est ac Schweinitziana. In hac tamen Cooke indicat sporidia 6 × 2.

**PHOMATOSPORA** Sacc. — Syll. I, p. 432, IX, p. 589.

1. *Phomatospora helvetica* Wegelin Beitr. Pyr. Schweiz, p. 3, t. I, 1760 f. 7-9.

*Hab.* in ramis decorticatis salicinis et fraxineis pr. Burgdorf Helvetiæ. — Perithecia 0,5 mm. long., 0,2-0,3 mm. lat. alt.; asci 130-140 × 7; sporidia 14-17 × 5-6, hyalina.

2. *Phomatospora arenaria* Sacc. Bomm. Rouss. Contr. Myc. Belg. 1761 IV, p. 276.

*Hab.* in culmis siccis Elymi arenarii, Ostende Belgii. — Perithecia 105-140 μ. diam.; asci 110-120 × 7; sporidia 12-15 × 6, hyalina.

**PHYSALOSPORA** Niessl — Syll. I, p. 433, IX, p. 591.

1. *Physalospora microsticta* Cooke Grev. XX, p. 5. 1762

*Hab.* in phyllodiis emortuis, Victoria Australiæ (MARTIN). — Perithecia punctiformia; asci cylindrici; sporidia 14-16 × 8, hyalina.

2. *Physalospora craticola* Wegelin Beitr. Pyr. Schweiz, p. 2, t. I, 1763 f. 1-4.

*Hab.* in ramis decorticatis Alni, Fraxini, Fagi, Bischofszell, Burgdorf. et Solothur Helvetiæ. — Perithecia 200-300 μ. diam. 170 μ. crass.; asci 70-90 × 13-17; sporidia 23-28 × 7-9, hyalina. Conferenda cum *Phys. gregaria* Sacc.

3. *Physalospora agrifolia* E. et E. New West Amer. Fung. in Erythea p. 198.

*Hab.* in foliis Quercus agrifoliæ in California (BLASDALE). Perithecia conferta intus flavida dein nigra 150-200 μ. diam.; asci 45-60 × 8-10; sporidia 10-15 × 5-6, hyalina.

4. *Physalospora Malbranchei* Karst. in Le Bret. et Niel Champ. Norm. 1765 V, Liste p. 148.

*Hab.* ad ramulos Tiliæ, Rouen Galliæ. — Perithecia 0,4 mm. diam.; asci 90-100 × 15; sporidia 28-30 × 9, hyalino-flavida.

5. *Physalospora padina* (Fries) Cooke Grev. XX, p. 86, *Sphæria* Fr. 1766 apud Moug.

*Hab.* in ramis Padi in Gallia (MOUGESOT). — Sporidia elongato-ellipsoidea, biseriata, hyalina, continua, 4-guttata, 20 × 8.

6. **Physalospora Araliæ** Pat. Bull. Boiss. 1895, p. 70. 1767

*Hab.* in pag. sup. foliorum *Araliæ*, Pichincha *Æquatoria*. — *Perithecia* maculis flavis innata, 0,3 mm. lat.; asci 130 × 15; sporidia 23-26 × 6, hyalina.

7. **Physalospora Gynoxidis** Pat. Bull. Soc. Myc. 1892, p. 131. 1768

*Hab.* in foliis *Gynoxidis laurifoliæ*, Pichincha *Æquatoria*. — *Perithecia* 0,3-0,5 mm. lat.; asci 100 × 45; sporidia 28-32 10-14, roseo-hyalina.

8. **Physalospora Ambrosiæ** E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 447. 1769

*Hab.* in foliis virentibus *Ambrosiæ trifidæ*, Racine Wis. Amer. bor. (Davis). — *Perithecia* 200 μ. diam.; asci 60-70 × 10-12; sporidia 10-12 × 6-7, hyalina.

9. **Physalospora Galii** Rostr. Bidr. Ascom. Dovr. p. 7. 1770

*Hab.* in caulibus emortuis *Galii borealis*, Dovre Norvegiæ. — *Perithecia* minuta; asci 38-42 × 6-7; sporidia fusioidea, 11-13 × 2,5.

10. **Physalospora ventricosa** (DR. et M.) Cooke Grev. XX, p. 107, 1771

*Dothidea ventricosa* DR. et Mont. in Herb. Berk. — *Peritheciis* sparsis, innatis, tectis, globosis, atris, papillatis; ascis clavatis, breviter stipitatis; sporidiis ellipticis, utrinque apiculatis, hinc eunotiæformibus, continuis, hyalinis, 15 × 8.

*Hab.* in caulibus *Ricini* (in Algeria?).

11. **Physalospora obtusa** (Schw.) Cooke Grev. XX, p. 86, *Sphæria* 1772

*obtusa* Schw. Amer. bor. 1688, Syll. II, p. 423. — Asci clavati; sporidia lanceolata hyalina 35-40 × 9.

12. **Physalospora iridicola** Roum. et Fautr. Rev. Myc. 1892, p. 110. 1773

*Hab.* in foliis siccis *Iridis foetidissimæ*, Côte-d'Or Gallicæ. — *Perithecia* erumpentia, fragilia; asci clavati; sporidia 20-23 × 4-5, hyalina.

13. **Physalospora Asbolæ** (B. et Br.) Cooke Grev. XX, p. 82 *Sphæria* 1774

*Asbolæ* B. et B. in Herb.

*Hab.* in Palmis, Ceylon. — *Perithecia* globosa, minuta; asci clavati; sporidia 18-20 × 10, hyalina.

14. **Physalospora Phormii** Schröt. Pilze Schles. II, p. 347. 1775

*Hab.* in foliis emortuis *Phormii tenacis* in Horto bot. Breslau Germaniæ. — *Perithecia* 0,25 mm. lat.; asci 66-75 × 11-13; sporidia 18-22 × 5-6, hyalina-flavida.

9:

**GEMINISPORA** Pat. Bull. Soc. Myc. 1893, p. 151 (Ety. ex ascis bi-

Pyrenomycetæ, Sphæriacæ, Hyalosporæ, Trichosphæria. 293  
 sporis). — *Perithecia foliicola, innata, epidermide atrata tecta, membranacea, poro pertusa; asci aparaphysati, bispori, clavulati; sporidia continua, oblonga, hyalina.*

1. *Geminispora Mimosæ* Pat. Bull. Soc. Myc. 1893, p. 151. 1776

*Hab.* in pag. inf. foliorum *Mimosæ floribundæ*, Pululahua Æquatoriæ. — *Perithecia* 300  $\mu$ . d.; asci 50-70  $\approx$  20; sporidia 25-30  $\approx$  7-9.

## TRABUTIA Sacc. et Roum. — Syll. I, p. 449, IX, p. 601.

### I. *Eu-Trabutia*. Sporidia subhyalina.

1. *Trabutia Phyllodii* Cooke et Massee Grev. XIX, p. 60. 1777

*Hab.* in phyllodiis *Acaciæ longifoliæ*, Victoria Australiæ (MARTIN). — *Perithecia maculis brunneis stromaticis adnata; asci tereti clavati octospori; sporidia* 20-24  $\approx$  10 (hyalina?).

2. *Trabutia parvicapsa* Cooke Grev. XX, p. 5. 1778

*Hab.* in phyllodiis *Acaciæ*, Victoria Australiæ (MARTIN). — *Perithecia minuta, nitidula, maculis brunneis immersa; asci clavati* 4-8-spori; sporidia 35-40  $\approx$  10, hyalina.

### II. *Agostæa* Sacc. \*) Sporidia brunnea.

3. *Trabutia Lantanæ* P. Henn. Fung. goyaz. p. 108. 1779

*Hab.* in foliis subviviis *Lantanæ* sp. Goyaz Brasiliæ (ULS). — *Stroma epiphyllum, atrum, perithecia innata applanata. Asci* 23-27  $\times$  20-22; sporidia 6-8  $\times$  5-7. hyalino-flavidula, dein brunnea.

## TRICHOSPHERIA Fuck. — Syll. I, p. 453, IX, p. 602.

1. *Trichosphæria flavida* E. et E. North Am. Pyr. p. 152. 1780

*Hab.* in ligno putri flavo-maculato, Canada (DEARNESS). — *Perithecia* 125  $\mu$ . diam., spinulis 35  $\approx$  3 vestita; asci 35  $\approx$  3; sporidia 5-6  $\approx$  1,5, hyalina.

2. *Trichosphæria subcalva* E. et E. in Proceed. Acad. S. N. Philad. 1893, p. 129. 1781

*Hab.* in ligno putri *Ostryæ virginicæ*, Canada (DEARNESS). — *Perithecia* 0,3 mm. diam. pilis mollibus et pallidis vestita; asci 100  $\approx$  10; sporidia 13-16  $\approx$  5-6, hyalina.

3. *Trichosphæria horrida* Ell. et Ev. Bull. Univ. Jowa 1893, p. 399. 1782

\*) Dico subgenus claro ab. Jos. Agosti, bellunensi (1715-1786) auctori *De re botanica tractatus* Bell. 1770.

*Hab.* in corticibus, Ometepe Amer. centr. (SMITH). — Perithecia 0,7 mm. diam., setulæ 100-250  $\approx$  8; asci 45-50  $\approx$  7-8; sporidia 6-8  $\approx$  2,5, hyalina.

4. *Trichosphæria Ansellii* Em. Marchal Bull. Soc. belg. micr. 1894, 1783 p. 264, t. VII, f. 6.

*Hab.* in pseudobulbo sicco Ansellii congonensis in Congo inf. (E. LAURENT). — Perithecia undique pilosa, 300-400  $\mu$ . d.; asci 65-80  $\approx$  8-12; sporidia continua (rarissime obsolete 1-septata) 16-22  $\approx$  5-6.

5. *Trichosphæria Sacchari* Massee Ann. of Botany 1893, p. 515, 1784 t. XXVII.

*Hab.* in culmis Sacchari officinarum, Barbados. — Asci apapophysati cylindracei; sporidia octona, continua, hyalina, 8-9  $\approx$  4. *Melanconii* species est socia et sistit statum conidicum.

6. *Trichosphæria Arundinariæ* E. et E. North Am. Pyren. p. 153. 1785

*Hab.* in culmis emortuis Arundinariæ, Louisiana Amer. bor. (LANGLOIS). — Perithecia ovoideo-conica, setis 150-200  $\approx$  4-6 vestita; asci 80-110  $\approx$  7-8; sporidia 20-22  $\approx$  5-7, hyalina.

**WALLROTHIELLA** Sacc. — Syll. I, p. 455, IX, p. 605.

1. *Wallrothiella basitricha* Penz. et Sacc. Monogr. Agrum. p. 330, 1786 tab. XXVI, f. 3.

*Hab.* in ligno vetusto Citri Aurantii, in Monte Argentario Etruriæ. — Perithecia 400-500  $\mu$ . diam. fibris mycelicis atris insidentia; asci 20-22  $\approx$  9-10 (p. sp.); sporidia 6-8  $\approx$  2-2,5 hyalina.

2. *Wallrothiella pusilla* Passer. Fung. nuovi ser. V, n. 4. — Peritheciis sparsis vel gregariis in ligno infuscato superficialibus, minutis, globosis, vertice papillulatis, atris; ascis cylindricis, apapophysatis, 8-sporis, 40-50  $\approx$  2,5-3; sporidiis cylindricis, uniserialibus, hyalinis, continuis, minute 4-nucleatis, 5-6  $\approx$  1,5. 1787

*Hab.* in trunco putri, Collecchio, Parma Ital. bor. — Accedunt conidia torulacea, fusca, helicoideo-convoluta, 10-articulata.

3. *Wallrothiella parvula* E. et E. New Sp. north Amer. Fung. in Pro- 1788  
ceed. Acad. S. N. Philad. 1893; p. 133.

*Hab.* in cortice radicum Fagi, Canada (DEARNESS). — Perithecia 150-200  $\mu$ . diam. nitidula; asci 50  $\approx$  5-6; sporidia 5-6  $\approx$  1,5-2,5, hyalina.

4. *Wallrothiella sphærelloides* Rehm in Lindau Pilzfl. Westf. p. 17, 1789 et Bref. Unters. X, p. 205.

*Hab.* in ramis Piri pr. Münster Germaniæ. — Perithecia 100-140  $\mu$ . diam.: asci 45-54  $\times$  6-9; sporidia 6-8  $\times$  5-6. hyalina

**BOTRYOSPHERIA** Ces. et De Not. — Syll. I, p. 456, IX, p. 605.

1. *Botryosphæria Pruni-spinosæ* Delacr. Bull. Soc. Myc. 1892, p. 191, 1790 t. XVII, f. II.

*Hab.* in ramis Pruni spinosæ pr. La Rochelle Galliæ. — Perithecia 3-5 in quoque stromate, intus alba; asci 130  $\times$  18; sporidia 25-33  $\times$  12, hyalina. Peraffinis *B. Berengerianæ*. *Spermogonia* adsunt: sporulæ 5  $\times$  1,5.

2. *Botryosphæria subconnata* (Schw.) Cooke, Syll. IX, p. 607, *Thümenia valsarioides* Rehm in M. U. n. 2166 (nec *Winteria* ut Cooke l. c.). — Specimina in Gossypio albo in M. U. sunt immatura; descriptionem fructificationis nondam vidi.
3. *Botryosphæria? epichloë* (Kunze) Sacc. Fung. herb. Bruxell. n. 11 1792 *Sphæria epichloë* Kunze in sched. in Herb. Brux. — Epiphylla, hypogena, oblonga, gemella, subconfluens, depressa, rugosa, atra; peritheciis ovalibus, ostiolo papillato demum pertuso; ascis....; sporidiis ellipsoidis, hyalinis, 7  $\times$  4.

*Hab.* in foliis graminaceæ guian. in Surinam (WEIGBLT). — Ubi asci reapse desint, species ad *Dothiorellam* spectaret.

#### Sect. 4. Hyalodidymæ.

**SPHÆRELLA** Ces. et De Not. — Syll. I, p. 476, IX, p. 611.

1. *Sphærella hypsicola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 334. 1793

*Hab.* in caulibus Trollii laxi, Cameron Pass, Colo. Amer. bor. — (CRANDALL). — Perithecia 80-90  $\mu$ . diam.; asci 25-35  $\times$  7-8; sporidia 9-11  $\times$  2,5-3, hyalina.

2. *Sphærella cœrulea* Ell. et Ev. Proc. Acad. Phil. 1894, p. 334. 1794

*Hab.* in caulibus emortuis Aquilegiæ cœruleæ, Colorado, Amer. bor. (CRANDALL). — Perithecia 100-120  $\mu$ . diam.; asci oblongi; sporidia 15-20  $\times$  3,5-4,5.

3. *Sphærella Hellebori* Roum. F. Gall. n. 170 [in Herb. Brux.] Sacc. 1795

Fung. herb. Brux. n. 14. — Maculis epiphyllis, angulosis, minutis, albidis, margine concolori; peritheciis punctiformibus, creberrimis, innatis, globulosis, ostiolo albido pertusis; ascis.... immaturis.

*Hab.* in foliis aridis Hellebori viridis ad ripas fluvii, pr. Toulouse Galliæ (ROUMÉGUÈRE). — Videtur, etsi immatura, diversa a *Sph. Lachesi* et *Sph. Hermione* quoque helleboricolis.

4. **Sphærella confinis** Karst. — Syll. I, p. 507. — \***Hambergii** Ro- 1796  
mell et Sacc. — Peritheciis dense gregariis, subsphæroideis, 100  $\mu$ .  
diam., epidermide arcte velatis erumpentibusque, nigris, subastomis;  
ascis subclavatis sessilibus, 25-50  $\approx$  7-10; sporidiis oblongo-fusoi-  
deis, obscure uniseptatis, plerumque 4-guttatis, rectis curvulisve,  
12-15  $\approx$  3-4, ex hyalino chlorinis.

*Hab.* in foliis subviviis Arabidis Gerardi in Gotlandia (E.  
HAMBERG). — Accedit quoque ad *S. carniolicam*.

5. **Sphærella gossypina** Atkins. Bull. Torr. Bot. Cl. 1891, pag. 300, 1797  
tab. 122, f. 4-6.

*Hab.* in foliis Gossypii herbacei, Alabama Amer. bor. so-  
cia *Cercospora gossypina*. — Perithecia 60-70  $\mu$ . diam.; asci 40-  
45  $\approx$  8-10; sporidia 15-18  $\approx$  3-4, hyalina,

6. **Sphærella sidæcola** E. et E. New West Amer. Fung. in Erythea 1798  
1893, p. 198.

*Hab.* in foliis viviis Sidalceæ delphinifoliæ, California. —  
Perithecia subcircinata; asci 35-40  $\approx$  8; sporidia 10-12  $\approx$  8, pirifor-  
formia, chlorina.

7. **Sphærella rhea** Fautrey Rev. mycol. 1894, p. 162. 1799

*Hab.* in foliis Rutæ graveolentis in Gallia. — Perithecia  
minuta pertusa; sporidia 1-septata 16-18  $\approx$  5-6. Socia adest *Phyl-  
losticta rhea* (spor. 8-11  $\approx$  3-4) et *Septoria rhea* (spor. 18-25  $\approx$  2,  
bi-trisept.).

8. **Sphærella Begoniæ** Pat. Bull. Boiss. 1895, p. 70. 1800

*Hab.* in pag. inf. foliorum Begoniæ, San Jorge Æquatoræ.  
— Perithecia 100-130  $\mu$ . diam., gregaria; asci 50-70  $\approx$  10; sporidia  
1-septata, 31-23  $\approx$  3-3.5, hyalina.

9. **Sphærella goodiæfolia** Cooke Grev. XXI, p. 38. 1801

*Hab.* in foliis Goodiæ latifoliæ, Victoria Australiæ (MOR-  
RISON). — Perithecia vix conspicua; asci clavati; sporidia 10-12  
 $\approx$  4, hyalina.

10. **Sphærella Baccharidis** Pat. Bull. Boiss. 1895, p. 70. 1802

*Hab.* in pag. sup. foliorum Baccharidis, San Jorge Æqua-  
toræ. — Perithecia 250  $\mu$ . diam., in soros conferta; asci 100-120  
 $\approx$  40-60; sporidia 30-35  $\approx$  10-12, 1-septata, hyalina.

11. **Sphærella Krigiæ** E. et E. North Am. Pyr. p. 280. 1803

*Hab.* in foliis Krigiæ amplexicaulis, Wisconsin Amer. bor.  
(DAVIS). — Perithecia 72  $\mu$ . diam.; asci 20-25  $\approx$  6-7; sporidia 10-  
12  $\approx$  1.5 (immatura).

12. **Sphærella plantaginicola** Pat. Bull. Soc. Myc. 1893, p. 153. 1804



*Hab.* in foliis Plantaginis, Panecillo. Æquatoriae. — Perithecia 100-150  $\mu$ . diam.; asci 80  $\times$  20; sporidia 26-30  $\times$  7-9.

13. **Sphærella grisea** Boy. et Jacz. Mat. mycol. Montpell. p. 21, f. 6. 1805

*Hab.* in caulibus siccis Scrophulariæ caninæ, Saint-Martin pr. Montpellier. — Perithecia minuta agglomerata; asci 32  $\times$  15; sporidia clavato-piriformia, 15  $\times$  6,5 hyalina.

14. **Sphærella asterinoides** Pat. Bull. Soc. myc. 1892, p. 132. 1806

*Hab.* in pag. sup. foliorum Solanacæ ejusdam, Pichincha. Æquatoriae. — Perithecia 250  $\mu$ . diam.; asci 58-60  $\times$  12-15; sporidia 20-22  $\times$  4-5, hyalina.

15. **Sphærella Solani** E. et E. in Proceed. Acad. S. N. Philad. 1893, 1807 p. 134.

*Hab.* in foliis Solani Dulcamaræ, Ohio et Canada Amer. bor. — Perithecia 80-110  $\mu$ . diam.; asci 35-40  $\times$  10; sporidia 10-12  $\times$  3.

16. **Sphærella Lycii** E. et E. in Proceed. Acad. S. N. Philad. 1893, 1808 p. 135.

*Hab.* in foliis vivis Lycii vulgaris Canadâ, (DEARNESS). — Perithecia 160  $\mu$ . diam.; asci 35-45  $\times$  10; sporidia 12-15  $\times$  5-6.

17. **Sphærella Asperulæ** Roum. et Fautr. Rev. mycol. 1894, p. 171. 1809

*Hab.* in foliis Asperulæ odoratæ in Gallia. — Perithecia minuta discoidea; asci 60-70  $\times$  13-20; sporidia 20-26  $\times$  6-9 hyalina.

18. **Sphærella Rubiæ** Brun. Glan. mycol. Ser. 3, Herbor. 1892-93, 1810 p. 3. — Peritheciis minutis, sparsis, immersis, ostiolo vix erumpentibus; ascis octosporis, claviformibus, 40  $\times$  10-12; sporidiis distichis, oblongis 1-septatis, rectis, hyalinis 7-10  $\times$  3.

*Hab.* ad caules emortuos Rubiæ tinctoriæ, Saintes in Gallia.

19. **Sphærella Chimaphilæ** E. et E. Proceed. Acad. N. Sc. Philad. 447 1811 (1893).

*Hab.* in foliis vivis Chimaphilæ umbellatæ, Delaware Amer. bor. (COMMONS). — Perithecia 75-100  $\mu$ . diam.; asci 40-45  $\times$  6-7; sporidia 7-8  $\times$  2,5, hyalina.

20. **Sphærella chimaphilina** Peck 47 Rep. p. 24 (1894), (S. *Chimaphilæ*). 1812

*Hab.* in foliis dejectis Chimaphilæ umbellatæ Cooperstown Junction Amer. bor. — Perithecia 60-80  $\mu$ . diam.; asci 40-50  $\mu$ . long.; sporidia 12-15  $\times$  4 hyalina. A S. *Chimaphilæ* E. et E. videretur differre sporidiis subduplo majoribus.

21. **Sphærella Diracæ** E. et E. in Proceed. Acad. S. N. Philad. 1893, 1813 p. 134.

- 298 Pyrenomycetæ, Sphæriacæ, Hyalodidymæ, Sphærella.
- Hab.* in foliis vivis *Dircæ palustris*, Canada (DEARNES). —  
 — Perithecia 80–110  $\mu$ . diam.; asci 35  $\times$  6; sporidia 15–20  $\times$  5–6  
 hyalina.
22. **Sphærella acerna** Fautr. Rev. Myc. 1891, p. 166. 1814  
*Hab.* in pag. inf. foliorum *Aceris campestris*, Côte-d'Or  
 Galliæ. — Perithecia subastoma, aggregata; asci 40  $\times$  6; sporidia 8–2.
23. **Sphærella alarum** Ell. et Halst. North Am. Pyr. p. 279. 1815  
*Hab.* in samaris *Acerum*, New Brunswick N. J. Amer. bor.  
 (HALSTED). — Perithecia 60–70  $\mu$ . diam.; asci 40  $\times$  10; sporidia 12–  
 14  $\times$  3–3.5 hyalina.
24. **Sphærella Castaneæ** Tognini Contr. Mic. Tosc. p. 8. 1816  
*Hab.* ad ramos *Castaneæ vescae* in Etruria. — Perithecia  
 prominentia carbonacea; asci 55  $\times$  10; sporidia 13  $\times$  6. Vix hujus  
 generis ob perithecia carbonacea valde prominentia, corticola.
25. **Sphærella etrusca** Tognini Contr. Mic. Tosc. p. 8. 1817  
*Hab.* in trunco vetusto *Castaneæ vescae* in Etruria — Pe-  
 rithecia 100  $\mu$ . diam.; asci 40  $\times$  25; sporidia 20  $\times$  7, medio constri-  
 cta. Vix hujus generis. Ex ipso auct. in litt. potius *Didymellæ*.
26. **Sphærella Henriquesiana** Sacc. Fl. myc. lusit. p. 10. — Perithe- 1818  
 ciis hypophyllis hinc inde in areolas maculiformes nigras densis-  
 sime confertis, globoso-lenticularibus, poro rotundo pertusis 200  
 $\mu$ . diam., contextu laxiusculo; ascis crasse fusoides brevissime sti-  
 pitatis, apice crasse tunicatis obtuseque tenuatis, 60–65  $\approx$  18–22,  
 octosporis, aparaphysatis; sporidiis 2–3-stichis oblongo-clavatis,  
 apice rotundatis, 1-septatis, non constrictis, 4-guttulatis, 20–22  $\approx$   
 5–6, rectis, hyalinis.  
*Hab.* in foliis emortuis *Ailanti glandulosæ*, Choupal pr.  
 Coimbra (MOLLER). *Sphærellæ Edemati* subaffinis.
27. **Sphærella maculata** Fautr. Rev. Myc. ort. 1891, p. 166. 1819  
*Hab.* in foliis dejectis *Pruni Mahaleb*, Côte-d'Or, Galliæ.  
 — Perithecia 100  $\mu$ . diam.; asci 35–45  $\approx$  10; sporidia 10  $\approx$  2.5  
 chlorina.
28. **Sphærella pirina** E. et E. North Am. Pyr. p. 275. 1820  
*Hab.* in foliis dejectis *Pisi*, Newfield N. J. Amer. bor. — Pe-  
 rithecia 75–100  $\mu$ . diam.; asci 22–30  $\approx$  5–6; sporidia 6–9  $\approx$  2, fla-  
 vidula.
29. **Sphærella cryptica** Cooke Grev. XX, p. 5. 1821  
*Hab.* in foliis languidis *Eucalypti*, Victoria Australiæ (MAR-  
 TIN). — Perithecia subglobosa, immersa; asci obpiriformes; spori-  
 dia 10  $\approx$  3 hyalina.

30. *Sphærella nubilosa* Cooke Grev. XIX, p. 61.

1822

*Hab.* in foliis vivis Eucalypti, Victoria Australiæ (MARTIN).

— Perithecia 40–60  $\mu$ . diam.; asci clavati; sporidia 16  $\approx$  3 hyalina.

31. *Sphærella Manganottiana* Mass. Contr. Micol. Veron. pag. 140, 1823 t. 5, f. 34.

*Hab.* in sarmentis siccis Vitis viniferæ in agro veronensi Ital. bor. — Perithecia 70–100  $\mu$ . diam.; asci 44–50  $\approx$  16–21; sporidia oblongo-clavata, 1-septata, 11–12  $\approx$  3,5–4 (ex icone).

32. *Sphærella Asiminæ* Ell. et Kell. North Am. Pyr. p. 268.

1824

*Hab.* in foliis vivis Asiminæ trilobæ, Ohio Amer. bor. (KELLERMAN). — Perithecia 75  $\mu$ . diam.; asci 24–27  $\approx$  12; sporidia 12  $\approx$  3,5 hyalina.

33. *Sphærella alba* Passer. Diagn. Funghi nuovi n. 5. — Maculis epiphyllis, discoideis, albido-cinereis; peritheciis sparsis, globosis, atris, ostiolo acuto erumpenti; ascis sessilibus aparaphysatis, basi gibbis, 38–45  $\times$  13–15; sporidiis ad ascorum basim tristichis, elongato-fusiformibus, medio septatis, hyalinis, 15  $\approx$  4,5–5.

1825

*Hab.* in foliis languidis Populi albæ, Vigheffio Parma Ital. bor. — In iisdem maculis adest etiam *Leptosphæria Salicinearum* Passer.

34. *Sphærella Juniperi* Fautr. Rev. Myc. 1871, p. 166.

1826

*Hab.* in foliis Juniperi communis, Côte-d'Or Galliæ. — Perithecia seriata; asci 40  $\approx$  8; sporidia 10–12  $\approx$  3.

35. *Sphærella pinicola* Fautr. Rev. Myc. 1891, p. 125.

1827

*Hab.* in foliis Pini austriacæ, Côte-d'Or Galliæ. — Perithecia 100  $\mu$ . diam.; asci 20–30  $\approx$  10–15; sporidia 9–11  $\approx$  2,5 cholorina.

36. *Sphærella canadensis* E. et E. North Amer. Pyr. p. 280.

1828

*Hab.* in foliis Thujæ occidentalis, Canadâ (DEARNESS). — Perithecia minuta, pertusa; asci 40–50  $\approx$  12–15; sporidia 20–22  $\approx$  5–7 hyalina.

37. *Sphærella Vivipari* Winter Deuts. Polar-exped. II, p. 94. — Peritheciis dense gregariis, amphigenis, maculas indeterminatas irregularesque formantibus, immersis, globosis, poro pertusis, fusco atris, ex 100  $\mu$ . diam.; ascis fasciculatis, e basi latiore sursum parum attenuatis, sessilibus, 8-sporis 35  $\times$  8–9, sporidiis inordinatis v. subdistichis, oblongis, sæpe curvatis, medio uniseptatis, constrictisque hyalinis, cellula inferiore parum angustiori et magis attenuata, 12–4  $\times$  3–4.

1829

*Hab.* in foliis emortuis Polygoni vivipari, Kingua Fjord.

38. *Sphærella minutissima* Wint. Die deutschen Polar-expeditionen 1830 1882-3 vol. II, p. 93. — Peritheciis sparsis, minutis, 60  $\mu$ . diam., globosis, poro simplici pertusis, membranaceis, fuscis; ascis e basi ventricose sursum attenuatis, brevissime abrupteque stipitatis, fasciculatis, 8-sporis, 20-25  $\times$  10  $\mu$ .; sporidiis in asci parte inferiore conglobatis, oblongo-clavatis, didymis, medio non constrictis, hyalinis, 8  $\times$  2,5.

*Hab.* in frondibus emortuis *Lastreæ fragrantis*, Kingua-Fjord. — Diversa est *Sph. minutissima* Peck (1887). — Syll. IX, p. 648 — quæ *Sph. perparva* Sacc. dicenda.

39. *Sphærella Tulasnei* Janczewski Recherch. sur le *Cladosp. herbarum* etc. sur les cereales Crac. 1894 cum tab. (Bull. Acad. Sc. Cracovie). 1894, t. 1, p. 26-199. Pl. 2-3.

*Hab.* in foliis cerialium, hinc inde. — Perithecia globoso-conoidea minuta; asci tereti-fusoidei 100-150  $\times$  14-16; sporidia tereti-oblonga, constricto-1-septata, hyalina, 28  $\times$  6,5. *Cladosporium herbarum* («saltem ejus quædam forma») est hujus stat. conid.

40. *Sphærella basicola* B. Frank in Berichte deut. bot. Gesellsch. 1892 1895, p. 62.

*Hab.* in vaginis interioribus *Secalis Cerealis* in Germaniæ pluribus locis. — Perithecia 120-180  $\mu$ . diam., poro simplici pertusa, nucleo roseolo; asci clavati; sporidia ovoidea, 1-septata, leviter constricta, hyalina, 10-12  $\mu$ . longa.

41. *Sphærella nigrificata* Fautr. Rev. Myc. 1891, p. 166. 1893

*Hab.* in foliis languidis *Agrostidis stoloniferæ*, Côte-d'Or Galliæ. — Perithecia aggregata; asci 30-40  $\times$  12-15; sporidia 18-20  $\times$  6-7.

42. *Sphærella Oryzopsidis* E. et E. in Proceed. Acad. S. N. Philad. 1893 1893, p. 134.

*Hab.* in foliis *Oryzopsidis asperifoliæ* Michigan Amer. bor. (Hicks). — Perithecia 75-80  $\mu$ . diam.; asci 35-40  $\times$  10-12; sporidia 12-15  $\times$  3-3,5 hyalina.

43. *Sphærella Phragmitis* E. et E. New spec. Fung., Proceed. Acad. N. Sc. Philad. 1893, pag. 446. 1895

*Hab.* in foliis emortuis *Phragmitis communis*, Indiana Amer. bor. (HARPER). — Perithecia 100-110  $\mu$ . diam.; asci 30-45  $\times$  7-9; sporidia 9-12  $\times$  3-4 hyalina clavato-piriformia. Socia adest *Stagonospora Phragmitis* E. et E.; sporulis 10-12  $\times$  3-4, hyalino-flavidis, bi-tri-nucleatis.

44. *Sphærella Asparagi* Bres. F. Trid. II, p. 43, t. 149, f. 2. 1896

*Hab.* in caulibus *Asparagi officinalis*, Tridenti. — Perithecia 60-80  $\mu$ . lat.; asci 50-70  $\approx$  12-14; sporidia 20-24  $\times$  8-9, hyalina.

45. **Sphærella Desmazieri** (Mont.) Sacc. Fungi herb. Brux. n. 15. *Saccidium Desmazieri* Mont. in Desm. Pl. crypt. n. 351 [in Herb. Brux.]. — Amphigena, microscopica, erumpens, hinc inde nebuloso-conferta, globulosa, atra, 120  $\mu$ . diam., apice pertusa; ascis clavatis, subsessilibus, 21-24  $\approx$  9-10; octosporis; sporidiis subdistichis, breve fusoides, utrinque obtusulis, 1-septatis, 9  $\times$  3, ex hyalino chlorinis (non omnino maturis visis).

*Hab.* in foliis siccis *Iridis Pseudacori* in Gallia. — Diagnosis auctoris l. c. data non convenit: an species duæ in eadem matrice?

**APIOSPORA** Sacc. — Syll. I, p. 539, IX, p. 659.

1. **Apiospora Rosenvingei** Rostr. Till. Grönl. Svamp. p. 616. 1838

*Hab.* in ramulis *Betulæ glandulosæ*, Narsak Groenlandiæ. — Perithecia poro pertusa; asci 65-70  $\times$  11-12; sporidia prope basim 1-septata, 14-15  $\times$  5-6, hyalina nebulosa.

2. **Apiospora Rhododendri** Oud. Contrib. Fl. myc. Pays-Bas XV, p. 8. 1839  
— Peritheciis minimis, 100  $\mu$ . diam., atris, membranaceis, subepidermicis, hinc inde gregariis, ostiolo vix perspicuo, protrudenti; ascis cylindraceo-clavatis 90  $\approx$  12, 8-sporis, pseudoparaphysatis; sporidiis piriformibus, subcurvulis, basi attenuatis, 18-21  $\approx$  4,5-5, 1-septatis.

*Hab.* ad ramos *Rhododendri* cujusdam, Pays-Bas.

3. **Apiospora Polypori** E. et E. North Am. Pyr. p. 311. 1840

*Hab.* in Fomite applanato vetusto, Delaware Amer. bor. (COMMONS). — Perithecia 200  $\mu$ . diam.; asci 40-45  $\times$  10-12; sporidia 12  $\times$  4.

**DIDYMELLA** Sacc. — Syll. I, p. 545, IX, p. 661.

1. **Didymella Fagopyri** Lamb. et Fautr. Rev. Myc. 1894, p. 75, T. CL, 1841  
f. 1. — Peritheciis hinc inde gregariis, obtectis, erumpentibus, globulosis, conicis v. planis, pertusis; ascis confertis, difformibus, 40-50  $\times$  18-20; sporidiis 4-8nis, inæqualiter 1-septatis, 20-25  $\times$  6.

*Hab.* ad caules *Fagopyri* esculenti, Côte-d'Or in Gallia.

2. **Didymella Smilacis** E. et E. North Am. Pyr. p. 732. 1842

*Hab.* in caulibus emortuis *Smilacis*, Newfield N. J. Amer. bor. — Perithecia 300  $\mu$ . diam.; asci 35-40  $\approx$  5-6; sporidia 8-10  $\times$  3, hyalina, breviter constricta.

3. *Didymella rubitingens* (Blox.) Cooke Grev. XX, p. 82, *Sphæria* 1843  
*rubitingens* Bloxam in Herb. Berk. — Peritheciis erumpentibus, mox nudatis, conicis, basi plana insculptis matricem rubro-maculantibus, nigris nitidulis; ascis clavatis; sporidiis fusoides, 1-septatis, tenuiter constrictis, 4-guttatis,  $20 \times 7$ , hyalinis.  
*Hab.* in caulibus herbarum, Gopsall Britanniae (BLOXAM).
4. *Didymella uberiformis* (Schw.) Cooke Grev. XX, p. 82, *Sphæria* 1844  
*uberiformis* Schw. Amer. bor. 1665, nec Fries. — Erumpens, corticola, sparsa; peritheciis semiimmersis, prominulis, atris, ostiolo crasso, conico; ascis clavatis; sporidiis lanceolatis, uniseptatis, 18  $\mu$ . long.  
*Hab.* in cortice Betulæ, Bethlehem Amer. bor.
5. *Didymella pilifera* Fautr. et Lamb. Rev. myc. 1894, p. 160, t. CL, 1845  
 fig. 4.  
*Hab.* in cortice Juniperi communis, Côte-d'Or Galliae. — Perithecia globoso-suburceolata; asci  $58 \times 28$ ; sporidia  $20-25 \times 8-10$ , constricto-1-septata, hyalina utrinque 4-setigera. — «An, novi generis typus?».
6. *Didymella Myricæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 335. 1846  
*Hab.* in ramis emortuis Myricæ ceriferæ Kiamansie Dol. Amer. bor. (COMMONS). Perithecia 100-120  $\mu$ . diam.: asci  $40 \times 20$ ; sporidia  $20 \times 6-8$ , hyalina, 4-guttata.
7. *Didymella Physocarpi* Ell. et Ev. Proc. Acad. Phil. 1894, p. 335. 1847  
*Hab.* in ramis emortuis Physocarpi opuliformi, Nuttall-burg West Va. Amer. bor. (NUTTALL). — Perithecia 0,2 mm. diam., intus alba; asci  $85-90 \times 10-12$ ; sporidia  $19-22 \times 4-5$ , 4-nucleata, hyalina.
8. *Didymella psoriella* (B. et C.) Cooke Grev. XX, p. 82, *Sphæria* 1848  
*psoriella* B. et C. in Herb. — Gregaria v. sparsa; peritheciis innatis, cuticulam elevantibus, globosis, nigris, pertusis; ascis clavatis, 8-sporis; sporidiis ellipsoideis, utrinque leniter tenuatis, 1-septatis, constrictis, 4-guttatis, hyalinis,  $25 \times 8$ .  
*Hab.* in cortice Platani, Carolina Amer. bor.
9. *Didymella fructigena* E. et E. North Am. Pyr. p. 319. 1849  
*Hab.* in fructibus et putaminibus Cerasi, Newfield N. J. Amer. bor. — Perithecia 100-150  $\mu$ . diam.; asci  $34-40 \times 6-7$ ; sporidia hyalina, constricta,  $12-15 \times 3-3,5$ .

**GNOMONIA** Ces. et De Not. — Syll. I, p. 501, IX, p. 672.

1. *Gnomonia Fautreyi* Roll. Rev. Mycol. 1894, p. 73, Tab. CLXI, f. 4. 1850

— Peritheciis submembranaceis, atris, numerosis, globulosis, 400–500  $\mu$ . diam., primum cuticula obtectis, dein ostiolo cylindræo prorumpentibus 150  $\mu$ . long., 100  $\mu$ . lat.; paraphysibus nullis; ascis numerosis fusiformibus brevi-stipitatis, apice tunica incrassatis 80  $\approx$  12; sporidiis hyalinis, distichis, oblongis, ovato-cuneiformibus, basi attenuatis, 1-septatis, 18–23  $\approx$  4–6.

*Hab.* ad caules siccos Galeobdolonis lutei, Côte-d'Or in Gallia.

2. **Gnomonia Quercus-Ilicis** Berl. Riv. Pat. Veg. I, p. 294. 1851

*Hab.* in pag. sup. foliorum Quercus Ilicis, Avellino Ital. merid. — Perithecia globosa 100–110  $\mu$ . diam., collo crassiusculo; asci 45–50  $\approx$  12–16; sporidia 20–24  $\approx$  7–8, 1-septata hyalina.

3. **Gnomonia Andropogonis** E. et E. North Am. Pyr. p. 324. 1852

*Hab.* in foliis dejectis Andropogonis, Newfield N. J. Amer. bor. — Perithecia 0,5 mm. diam., ostiolo sublaterali 0,5 mm. long.; asci 40  $\approx$  10 (p. sp.); sporidia 20–25  $\approx$  4, hyalina.

**PHARCIDIA** Körb. — Syll. IX, p. 676.

1. **Pharcidia marina** Ch. Bommer; Bull. Soc. Belg. Microsc. 1891, 1893 p. 151.

*Hab.* in testis Balani balanoidis in Hollandia. — Perithecia 117–200  $\mu$ . diam., semiimmersa, poro 30–40  $\mu$ . lat. pertusa; asci octospori 65–90  $\approx$  10–16 paraphysati; sporidia oblonga, 1-septata, 12–18  $\approx$  4–7, subhyalina.

**EPICYMATIA** Fuck. — Syll. I, p. 570.

1. **Epicymatia Modoniæ** Passer. Diagn. fung. nuovi, V, n. 6. — Peritheciis . . . . . ascis clavatis, paraphysatis, 8–spor. 75–90  $\approx$  10; sporidiis distichis vel oblique monostichis, fusiformibus, curvulis, medio septatis et constrictis, loculis biguttulatis, 20–22,5  $\approx$  5. 1854

*Hab.* ad Stilbosporam Modoniam in ramis emortuis Castaneæ vesceæ, Vigheffio, Parma Ital. bor.

**MELANOPSAMMA** Niessl. — Syll. I, p. 675, IX, p. 682.

1. **Melanopsamma obtusella** Sacc. Grev. 1892, p. 66, t. 184, f. 4. — 1855

Peritheciis sparsis, globoso-depressis, basi insculpta subsuperficialibus,  $\frac{1}{2}$ – $\frac{1}{2}$  mm. diam., carbonaceis, nigris, levibus, ostiolo minuto impresso obtuso; ascis cylindricis, brevissime stipitatis, apice rotundatis, 100–120  $\approx$  8; paraphysibus filiformibus; sporidiis oblique monostichis, obovato-oblongis, utrinque acutiusculis, constrictulo-1-septatis, 17–18  $\approx$  6, ex hyalino dilutissime luteolis.



*Hab.* in ramis decorticatis putrescentibus Rhamni Frangulæ, Rigny Galliæ (FLAGEOLET). — Ab affini *M. obtusa* Karst. differt ascis cylindricis angustioribus, sporidiis supra latioribus, peritheciis minus emergentibus, matrice etc. Socium adest *Lophiostoma dumeti* Sacc.

2. *Melanopsamma corticola* E. et E. New sp. North Amer. Fung. in 1856  
Proceed. Acad. S. N. Philad. 1893, p. 129.

*Hab.* in cortice vivente Quercus albæ, Newfield N. J. Amer. bor. — Perithecia 175-200  $\mu$ . diam.; asci 50-65  $\times$  10-12; sporidia 12-15  $\times$  3-3,5, constricto-uniseptata, hyalina.

3. *Melanopsamma umbratilis* Wegelin Beitr. Pyr. Schweiz. p. 3, t. I, 1857  
f. 10-11.

*Hab.* in fragmento ligneo salicino pr. Bischofszell Helvetiæ. — Perithecia 300-400  $\mu$ . diam.; asci 110-120  $\times$  11-14; sporidia 17-22  $\times$  7-10, constricto-uniseptata, hyalina.

4. *Melanopsamma kansensis* E. et E. New west-Amer. Fung. p. 17, 1858  
Erythea Vol. II, 1894.

*Hab.* in cortice Ulmi americanæ adhuc vivæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 0,3-0,5 mm. diam.; asci 100-110  $\times$  10-12; sporidia 18-22  $\times$  6-8, constricto-1-septata.

5. *Melanopsamma sphærelloides* Wegelin Beitr. Pyr. Schweiz, p. 4, 1859  
t. II, fig. 12-13.

*Hab.* in ligno denudato alneo pr. Burgdorf Helvetiæ. — Perithecia 300-360  $\mu$ . diam.; asci 120-150  $\times$  12-13; sporidia 17-21  $\times$  8-9, constricto-uniseptata, hyalina.

6. *Melanopsamma Rosæ* Passer. Diagn. Fungh. nuovi V, n. 7. — 1860  
Peritheciis in ligno vel cortice nigrificato superficialibus, gregariis v. sparsis, globosis, ostiolo minuto, nitidulo, setis raris, longis, continuis, fuligineis, contextu carbonaceo; ascis elongato-clavatis, basi attenuato-stipitatis, apice obtusis, paraphysatis, 8-sporis, 70  $\times$  6-7; sporidiis subdistichis, fusiformibus, utrinque acutis, medio septatis, non constrictis, hyalinis, 12,5  $\times$  2,5-3.

*Hab.* in ramis putrescentibus Rosæ in horto botanico, Parma Ital. bor. — *Melanopsammam Ruborum* accedere videtur, sed notis allatis diversa.

7. *Melanopsamma buxiformis* (B. et C.) Cooke Grev. XX, pag. 82, 1861  
*Sphæria (Pertusæ) buxiformis*, B. et Curt. — Peritheciis sparsis erumpentibus, parvulis, basi innatis, depressis, levibus, nigris; ascis clavatis; sporidiis distichis, elongato-ellipsoideis, 1-septatis, non constrictis 22-26  $\times$  8, hyalinis,

*Hab.* in ligno denudato in insula Cuba.

8. **Melanopsamma Shimekii** Ell. et Ev. Bull. Univ. Iowa 1893, p. 402. 186

*Hab.* in ligno indurato, sicco, Ometepe Amer. centr. (SMITH).

Perithecia 0,7 mm. diam.; asci 150-180 × 12-15; sporidia 48-56 × 10-12, constricto 1-septata, hyalino-flavida.

9. **Melanopsamma borealis** E. et E. Proceed. Acad. N. Sc. Philadelph. 186  
1893, p. 445.

*Hab.* in corticibus Newfoundland Amer. bor. (WAGHORN). —

Perithecia 400-500  $\mu$ . diam.; asci 75-80 × 7-8; sporidia 14-16 × 5-6, constricta, hyalina.

10. **Melanopsamma nucigena** E. et E. New Fung. Proceed. N. Sc. 186  
1893, p. 445.

*Hab.* in nucibus dejectis Caryæ, Newfield N. J. Amer. bor. —

Perithecia 200-250  $\mu$ . alt.; asci 60-70 × 7; sporidia 15-20 × 3,5-4,5, triseptata, hyalina. — An *Zignoellæ* species?

11. **Melanopsamma abscondita** E. et E. North Am. Pyr. p. 177. 186

*Hab.* in interiore nucum dejectarum Caryæ, New Jersey Amer.

bor. — Perithecia 0,7 mm. diam.; asci 75 × 12; sporidia 20-22 × 5-6, constricto-uniseptata, hyalina, subinde triseptata. — An potius *Zignoellæ* species?

**BERTIA** De Not. — Syll. I, p. 481, IX, p. 687.

1. **Bertia novo-guineensis** Henn. Fung. novoguïn. II, p. 37. — Peri- 18  
theciis confertis v. sparsis, sphæroideis, tuberculatis, griseo-nigris, glabris, circ. 5 mm. alt.; ascis longe pedicellatis, fusoides-clavatis, octosporis, hyalinis, 90-115 × 10-14; sporidiis arcuato-curvatis, elongatis, hyalinis 1-septatis, 25-30 × 5-7.

*Hab.* in ligno putri; Nova Guinea.

2. **Bertia Massei** Sacc. *B. macrospora* Massee Journ. of Bot. 1892, 1  
p. 164, t. 321, f. 9-12.

*Hab.* in ramis dejectis in India occidentali (ELLIOTT). — Perithecia 0,5 mm. diam.; asci clavati; sporidia 28-30 × 6-7, constricto 1-septata hyalina.

3. **Bertia fruticicola** P. Henn. Hedw. 1894, p. 233. 1

*Hab.* in fructibus *Pangii* edulis putridis, Celebes (WARBURG).

— Perithecia hemisphærica, rugulosa; asci cylindranei 120-150 × 11-13, octospori; sporidia elongato-fusoides, 1-septata, hyalina, 20-25 × 6-8.

1. *Venturia asterinoides* E. et M. North Am. Pyr. p. 138. 1869  
*Hab.* in foliis *Quercus laurifoliae* Florida (MARTIN). — Perithecia 110-140  $\mu$ . diam., setulis 100-200  $\approx$  3; asci 35-40  $\approx$  12-15; sporidia 12-15  $\approx$  3-4, 1-septata, hyalina.
2. *Venturia formosa* Ell. et M. North Am. Pyr. p. 139. 1870  
*Hab.* in foliis vivis *Oleæ americanæ*, Florida Amer. bor. — Perithecia 220-300  $\mu$ . diam., setulis 100-175  $\approx$  5-6; asci 50  $\approx$  20; sporidia 20-23  $\approx$  7-8, 1-septata, flavida.
3. *Venturia Vaccinii* Ell. et Ev. Proc. Acad. Phil. 1894, p. 325. 1871  
*Hab.* in foliis emortuis *Vaccinii ovati*, Washington (PIPER). — Perithecia hypophylla 80-100  $\mu$ . diam., spinulis 30-60  $\mu$ . long.; asci 25-35  $\approx$  6-7; sporidia 10-12  $\approx$  2-2,5, 1-septata, hyalina.
4. *Venturia furcata* Fautr. Rev. Myc. 1892, p. 5. 1872  
*Hab.* in foliis *Juniperi Sabinæ*, Côte-d'Or Galliae. — Perithecia exigua, flavida, setulis pallidis, bi-trifurcatis; asci 80  $\approx$  8-10; sporidia 8-11  $\approx$  3-4, 1-septata, hyalina.
5. *Venturia macrospora* Rostr. Oest-Grönl. Svampe p. 22. 1873  
*Hab.* in foliis dejectis *Salicis groenlandicæ* in Groenlandia. Perithecia nigro-setosa; asci 100-105  $\approx$  15-20; sporidia 25-29  $\approx$  12-14, hyalina.
6. *Venturia atriseda* Rehm Hedw. 1882, pag. 84, Wint. Pilze II, 1874 p. 433.  
*Hab.* in caulibus siccis *Gentianæ luteæ* et punctatæ, in Germania. — Perithecia globosa, minuta, setulis 90  $\approx$  6; asci 60  $\approx$  12; sporidia 18  $\approx$  6, didyma, chlorina.
7. *Venturia Oxyriæ* Rostr. Till. Groenl. Svamp. p. 617 (*Coleroa*). 1875  
*Hab.* in caulibus *Oxyriæ digynæ*, in Groenlandia. — Perithecia prominula, setulosa; asci 65-75  $\approx$  16-17; sporidia 22  $\approx$  8-9, uniseptata, nubilosa.
8. *Venturia Sacchari* v. Breda Rood-Rot. p. 22 (*Coleroa*). 1876  
*Hab.* in foliis *Sacchari* in Java. — Perithecia 70-80  $\mu$ . diam.; asci 25  $\mu$ . long., octospori; sporidia 11  $\approx$  6.

**GIBBERA** Fr. — Syll. I, p. 599, IX, p. 699.

1. *Gibbera salisburgensis* Niessl Hedw. 1887, p. 33. 1877  
*Hab.* in foliis vivis *Ericæ carneæ* pr. Lofer Salisburgi. — Perithecia cæspitosa, subiculo atro-fusco insidentia, globosa, setulosa, nigra; asci 65-80  $\approx$  8-9, sæpius tetraspori; sporidia 1-septata, cuneata, 18-21  $\approx$  5-6, dilute olivacea. — Comparanda cum *Venturia Straussii* Sacc. et R. — Syll. IX, p. 689.

**ERIOSPHAERIA** Sacc. — Syll. I, p. 397, IX, p. 696.

1. *Eriosphaeria analoga* Sacc. Bomm. Rouss. Contr. Myc. Belg. IV, 1879  
p. 262.

*Hab.* in ramulis Fagi silvaticae, in Belgio. — Perithecia 90-120  $\mu$ . diam., setulis 60-110  $\approx$  6-9; asci 24-28  $\approx$  5-6; sporidia 4-5  $\approx$  2,5, uniseptata, hyalina.

2. *Eriosphaeria Rehmii* Cavara F. Longob. exsicc. n. 171 c. icone. 1879

*Hab.* in cavo carioso Mori albæ pr. Pavia Italiae sup. — Perithecia 260-300  $\mu$ . diam.; asci 80-90  $\approx$  12-14; sporidia 16-18  $\approx$  6-7.

**DIAPORTHE** Nits. — Syll. I, p. 607, IX, p. 702.I. *Chorostate* Nits.

1. *Diaporthe* (Chor.) *Magnoliæ* E. et E. North Am. Pyr. p. 433. 1880

*Hab.* in ramis emortuis *Magnoliæ glaucæ* Newfield N. J. Amer. bor. — Perithecia 0,5 mm. diam.; asci 40-50  $\approx$  6-7; sporidia 10-12  $\approx$  3, 1-septata, subconstricta, hyalina.

2. *Diaporthe* (Chor.) *binoculata* (Ell.) Sacc. — Syll. IX, p. 708. — 1881  
var. *Magnoliæ acuminatæ* Peck 44 Rep. p. 28.

*Hab.* in ramis *Magnoliæ acuminatæ*, Carrollton Amer. bor. — A typo differt linea stromatica lignum penetrante; sporidiis 15-18  $\approx$  7.

3. *Diaporthe* (Chor.) *tuberculosa* (Ellis) Sacc. — Syll. IX, p. 709. — 1882  
var. *dispersa* Peck 44 Rep. p. 28.

*Hab.* in trunco *Amelanchieris canadensis*, Carrollton Amer. bor. — A typo differt peritheciis paullo majoribus 0,5-0,7 mm. diam., ostiolis sæpe discretis.

4. *Diaporthe* (Chor.) *Pruni* E. et E. New sp. North Amer. Fung. in 1883  
Proceed. Acad. N. Philad. 1893, p. 141.

*Hab.* in ramis emortuis *Pruni virginianæ* Canada et Iowa Amer. bor. (DEARNESS et HOLWAY). — Perithecia 0,3-0,5 mm. diam.; asci 60-65  $\approx$  8-10 (p. sp.); sporidia 15-20  $\approx$  3,5-5 utrinque appendiculata, hyalina.

5. *Diaporthe* (Chor.) *aliena* E. et E. New sp. North Amer. Fung. in 1884  
Proceed. Acad. S. N. Philad. 1893, p. 142.

*Hab.* in ramis *Crataegi*, Canada (DEARNESS). — Perithecia 0,5-0,7 mm. diam.; asci 75-80  $\approx$  7-8; sporidia 10-13  $\approx$  7-8, uniseptata, constricta, hyalina.

6. *Diaporthe* (Chor.) *Caraganæ* Jaczews. Fungi Rossiae exsicc. I, n. 5, 1885  
Hedw. 1895, p. (38).

*Hab.* in ramis emortuis *Caraganæ arborescentis* in prov. Smolensk Rossicæ. — *Perithecia* subglobosa, stromatè valseo collecta, ostiolis prominulis; asci  $80 \approx 12$ ; sporidia  $20 \approx 5-6$ , constrictio-1-septata, 4-guttata, hyalina.

7. *Diaporthe* (Chor.) *Amorphæ* E. et E. New west Amer. Fung. 21, 1886 in Eryth. Vol. II, 1894.

*Hab.* in ramis *Amorphæ fruticosæ*, Kansas Amer. bor. — (BARTHOLOMEW). — *Perithecia* 0,3-0,5 mm. diam., ostiolis conico-cylindricis, fasciculatis; asci  $50-55 \approx 6-8$ ; sporidia  $8-10 \approx 3-4$ , constrictio 1-septata, hyalina.

8. *Diaporthe* (Chor.) *tenella* (Schw.) Starb. Stud. 28, f. 14, *Sphæria* 1887 Schw. Syll. II, p. 420. — *Perithecia* 400  $\mu$ . diam.; asci  $40-50 \approx 7-9$ ; sporidia  $7-10 \approx 2,5-3,5$ , spurie 1-septata. (In ramis *Hibisci rosei*) — Secundum Starb. l. c. *Sphæria versatilis* Fr. ad *D. strumellæformem* De Not. (in Corylo) spectat et *Sphæria friabilis* Pers. p. p. ad *Diaph. leiphæmiam* pertinet.

9. *Diaporthe* (Chor.) *staphylina* E. et E. North Am. Pyr. p. 737. 1888

*Hab.* in ramis emortuis *Staphylæ trifoliæ*, Canada (DEARNESS). — *Perithecia* 0,5 mm. diam.; asci  $50-55 \approx 7-8$  (p. sp.); sporidia  $12-15 \approx 4-5$ , uniseptata, hyalina.

10. *Diaporthe* (Chor.) *subcongrua* E. et E. North Am. Pyr. p. 425. 1889

*Hab.* in ramis emortuis *Aceris*, Canada (DEARNESS). — *Perithecia* 0,3 mm. diam.; asci  $50 \approx 8-10$ ; sporidia  $12-14 \approx 3,5-4,5$ , constrictio-1-septata, hyalina.

11. *Diaporthe* (Chor.) *ontariensis* E. et Ev. North Am. Pyr. p. 437. 1890

*Hab.* in ramis *Aceris*, Canada (DEARNESS). — *Perithecia* 0,5 mm. diam.; asci  $65 \approx 12$  (p. sp.); sporidia  $12-15 \approx 6,5$ , 1-septata, constricta, hyalina.

12. *Diaporthe* (Chor.) *spicata* E. et E. New sp. North Amer. Fung. 189 in Proceed. Acad. S. N. Philad. 1893, p. 143.

*Hab.* in ramulis emortuis *Aceris spicati*, Canada (DEARNESS). — *Perithecia* 250-300  $\mu$ . diam.; asci  $40 \approx 7$  (p. sp.); sporidia  $12-13 \approx 3-3,5$ , uniseptata, hyalina.

13. *Diaporthe* (Chor.) *epimicta* E. et E. North Am. Pyr. p. 439, 1892

*Hab.* in ramis emortuis *Ilicis verticillatæ*, Newfield N. J. Amer. bor. — *Perithecia* 0,5 mm. diam.; asci  $50 \approx 8$  (p. sp.); sporidia  $12 \approx 8$ , 1-septata, utrinque setigera.

14. *Diaporthe* (Chor.) *Araliæ* Ell. et Ev. Proc. Acad. Philad. 1894, 1893 p. 339.

*Hab.* in ramis emortuis *Araliæ spinosæ*, Nuttallburg Wes.

Va. Amer. bor. (NUTTALL). — Perithecia 0,5-0,7 mm. diam., ostiolis brevibus; asci 40-45  $\approx$  5-6; sporidia 12-13  $\approx$  2,5-2, constricto-uniseptata, hyalina.

15. *Diaporthe* (Chor.) *albocarnis* E. et E. New sp. North Amer. Fung. 1894  
in Proceed. Acad. S. N. Philad. 1893, p. 140.

*Hab.* in ramulis emortuis Corni, Staphyleæ et Ostryæ, Canada (DEARNESS). — Perithecia 250  $\mu$ . diam.; asci 75  $\approx$  7-8 (p. sp.); sporidia 12-20  $\approx$  3,5-5, constricto-1-septata (rarius subtriseptata), interdum fuscella.

16. *Diaporthe* (Chor.) *congener* E. et E. North Am. Pyr. p. 426. 1895

*Hab.* in ramis emortuis Fraxini, Canada (DEARNESS). — Perithecia 0,5 mm. diam.; asci 70-75  $\approx$  10-12; sporidia 12-14  $\approx$  6, constricto-1-septata-hyalina.

17. *Diaporthe* (Chor.) *stereostoma* Ell. et Ev. Proc. Acad. Phil. 1894, 1896  
p. 338.

*Hab.* in ramis emortuis *Symphoricarpi occidentalis*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 0,3 mm. diam., ostiolis fasciculatis, 0,5-1 mm. long.; asci 45-50  $\approx$  7-8 (p. sp.); sporidia 10-12  $\approx$  3,5-4, constricto-uniseptata, hyalina.

18. *Diaporthe* (Chor.) *calosphærioides* E. et E. New sp. North Am. 1897  
Fung. in Proceed. Acad. S. N. Philad. 1893, p. 142.

*Hab.* in ramis emortuis *Sambuci*, Canada (DEARNESS). — Perithecia 0,5 mm. diam.; asci 50-60  $\approx$  8-10 (p. sp.); sporidia 15  $\approx$  3-3,5, tenuiter 1-septata, hyalina, curvula.

19. *Diaporthe* (Chor.) *Sambuci* E. et E. New Fung. Proceed. Acad. 1898  
N. Sc. Philad. 1893, p. 449.

*Hab.* in ramis emortuis *Sambuci canadensis*, Michigan Amer. bor. (JOHNSON). — Perithecia 250-350  $\mu$ . diam., ostiolis fasciculatis, obtusis; asci 40-50  $\approx$  7; sporidia 14-16  $\approx$  3-3,5, utrinque appendiculata, hyalina.

20. *Diaporthe* (Chor.) *tetraptera* Ell. et Ev. Proc. Acad. Phil. 1894, 1899  
p. 339.

*Hab.* in ramis emortuis *Halesiæ tetrapteræ*, Nuttallburg Virginie (NUTTHALL). — Perithecia 0,5 mm. diam., ostiolis dense fasciculatis; asci 75-80  $\approx$  12; sporidia 19-22  $\approx$  5-7, constricto-uniseptata hyalina.

21. *Diaporthe* (Chor.) *Halesiæ* Ell. et Ev. Proc. Acad. Phil. 1894, 1900  
p. 339.

*Hab.* in ramis emortuis *Halesiæ tetrapteræ* Nuttallburg

- 310      Pyrenomycetæ, Sphæriaceæ, Hyalodidymæ, Diaporthe.
- West Va. (NUTTALL). — Perithecia 0,7 mm. diam., ostiolis fasciculatis; asci 55-60  $\approx$  6-7; sporidia 12-15  $\approx$  2,5-3, uniseptata.
22. *Diaporthe* (Chor.) *Dircæ* E. et E. New Fung. in Proceed. Acad. 1901  
N. Sc. Philad. 1893, p. 448.
- Hab.* in ramis dejectis *Dircæ palustris*, Canada (DEARNESS). — Perithecia 0,3-0,5 mm. diam., ostiolis brevibus; asci 50-60  $\approx$  6-7; sporidia 11-13  $\approx$  2,5-3, quadrinucleata, hyalina.
23. *Diaporthe* (Chor.) *apiospora* E. et E. New sp. North Amer. Fung. 1902  
in Proceed. Acad. S. N. Philad. 1893, p. 140.
- Hab.* in cortice emortuo *Ulm*i, Canada (DEARNESS). — Perithecia 0,3 mm. diam.; asci 75-80  $\approx$  8-10; sporidia 11-15  $\approx$  6-10, constricto 1-septata, hyalina.
24. *Diaporthe* (Chor.) *ulmicola* E. et E. New sp. North Amer. Fung. 1903  
in Proceed. Acad. S. N. Philad. 1893, p. 141.
- Hab.* in ramis emortuis *Ulm*i, Canada (DEARNESS). — Perithecia 0,3 mm. diam.; asci 40  $\approx$  7; sporidia 8-11  $\approx$  3-4, vix constricta, hyalina, 3-4-nucleata.
25. *Diaporthe* (Chor.) *eusticha* E. et Ev. North Am. Pyr. p. 424. 1904
- Hab.* in ramis emortuis *Caryæ*, Newfield N. J. Amer. bor. — Perithecia 250  $\mu$ m. diam.; asci 40-50  $\approx$  6-7; sporidia 12-15  $\approx$  3-3,5, 1-septata, vix constricta, hyalina.
26. *Diaporthe* (Chor.) *Juglandis* E. et E. New Fung. Proceed. Acad. 1905  
N. Sc. Philad. 1893, p. 448.
- Hab.* in ramis emortuis *Juglandis cinereæ*, New York Amer. bor. (SHEAR). — Perithecia 400-600  $\mu$ m. diam., ostiolis brevibus; asci 90-100  $\approx$  8-10; sporidia 15-20  $\approx$  7-8 constricto-1-septata hyalina.
27. *Diaporthe* (Chor.) *biconica* (Curr.) Sacc. *Valsa biconica* Currey 1906  
Linn. Trans. XXII, fig. 142, Cooke Grey. XX, p. 82.
- Hab.* ad ramos in Britannia. — Perithecia circinata, pustulas minutas in cortice formantia, ostiolis brevibus; sporidia biconoidea, 1-septata, haud. constricta, chlorina, 28-30  $\approx$  8.

## II. *Euporthe* Nits.

28. *Diaporthe* (Eup.) *micromegala* E. et E. in Proceed. Acad. N. Sc. 1907  
Philad. 1893, p. 449.
- Hab.* in calibus emortuis *Desmodii* (?) Delaware Amer. bor. (COMMONS). — Perithecia 200-300  $\mu$ m. diam., ostiolo 1 mm. long.; asci 50  $\approx$  20 (p. sp.); sporidia 25-28  $\approx$  5-6, non constricta.



29. *Diaporthe* (Eup.) *Raphani* Brun. Fl. myc. Saint et Four. in Bull. 1908  
Soc. Sc. Nat. Fr. p. 217.

*Hab.* in caulibus emortuis *Raphani Raphanistri*, Saintes Galliæ. — *Perithecia* exigua, globulosa, longicollia; asci 60-65 × 8; sporidia 16-18 × 3, quadriguttulata, hyalina.

30. *Diaporthe* (Eup.) *hyospillina* Sacc. et Flag. Grev. XXI, pag. 65, 1909  
t. 184, fig. 2. — *Peritheciis* singulis v. paucis hinc inde in folii parenchymate immersis, linea nigra subcirculari cinctis epidermideque (præcipue inferiori) leniter atrata tectis, globulosis,  $\frac{1}{2}$  mm. diam., ostiolo conoideo, brevissimo, epidermidem vix excedente; ascis fusoides, subsessilibus, 40-50 × 7-8, octosporis, aparaphysatis, lumine apice bifoveolato; sporidiis distichis, fusoides, 1-septatis, vix constrictis, 12-14 × 3, indistincte guttatis, hyalinis.

*Hab.* in foliis dejectis *Mahoniæ Aquifolii*, Rigny Galliæ (FLAGEOLET). — *D. ceuthosporioidi* affinis sed maculæ stromaticæ minores (1-2 mm. diam.) nec rufæ etc. *Hypsopilam* imitatur.

31. *Diaporthe* (Eup.) *maculans* Sacc. et Flag. Grev. XXI, p. 66, t. 184, 1910  
fig. 3. — *Peritheciis* singulis v. paucis in areolis elongatis, minutis, sub epidermide nigrificata innato-prominulis, globosis, nigris,  $\frac{1}{4}$  mm. diam., ostiolis minutissimis; ascis fusoides, 40-48 × 7-8, aparaphysatis, 8-sporis, apice bifoveolatis; sporidiis distichis teretifusoides, 1-septatis, constrictis, 4-guttatis, 15 × 4, hyalinis.

*Hab.* in ramis emortuis *Berberidis vulgaris*, Rigny (FLAGEOLET). — Maculis elongatis, 2-3 mm. long.,  $\frac{1}{2}$  mm. lat., a præcedente præcipue differt, sed utraque forte varietas *D. ceuthosporioidis*.

32. *Diaporthe* (Eup.) *placoides* E. et E. North Am. Pyr. p. 451. 1911

*Hab.* in caulibus emortuis *Lactucæ canadensis*, Newfield N. J. Amer. bor. — *Perithecia* 100-150  $\mu$ . diam.; asci 35-40 × 6; sporidia 7-8 × 3,5, 3-4-nucleata, hyalina.

33. *Diaporthe* (Eup.) *palustris* Brun. Fl. Myc. Saint. et For. in Bull. 1912  
Soc. Sc. Nat. de l'Ouest. p. 217.

*Hab.* in caulibus emortuis *Euphorbiæ palustris*, Saintes in Gallia. — *Perithecia* globulosa, sparsa, brevicollia; asci 60-80 × 8; sporidia quadriguttata, 16-20 × 4, hyalina.

34. *Diaporthe* (Eup.) *claviceps* E. et D. North Am. Pyr. p. 738. 1913

*Hab.* in ligno decorticato *Ostryæ virginicæ*, Canada (DEARNESS). — *Perithecia* 0,7-1 mm. diam., ostiolis 0,5-1 mm. long.; asci 35-45 × 4-5; sporidia 11-13 × 3-4, constricto-uniseptata, hyalina.

35. *Diaporthe* (Eup.) *Juncaginearum* Rostr. Myk. Meddel. V, p. 216. 1914

*Hab.* in caulibus emortuis *Triglochinis palustris*, in Dania. — *Perithecia* plagulas formantia; asci 48  $\approx$  15; sporidia hyalino-flavida, 1-septata, 4-guttata, 20-22  $\approx$  7-8.

36. *Diaporthe* (Eup.) *incongrua* E. et E. North Am. Pyr. p. 453. 1915

*Hab.* in culmis emortuis *Zææ Maydis*, Kentucky et Louisiana Amer. bor. — *Perithecia* 0,2-0,3 mm. diam., ostiolo 1 mm. long.; asci 40  $\approx$  7-8; sporidia 7-10  $\approx$  3, constricto-1-septata, hyalino-flavida.

### III. *Tetrastaga* Nits.

37. *Diaporthe* (Tetrast.) *disputata* Bomm. Rouss. Sacc. Contr. Mycol. 1916  
Belg. IV, p. 251.

*Hab.* in ramulis emortuis *Juniperi Sabinæ*, in Belgio. — *Perithecia* 250-300  $\mu$ . diam. ostiolo brevi; asci 48  $\approx$  7-9; sporidia 12-17  $\approx$  3-4, uniseptata, hyalina, breve mucronata.

### Sect. 5. *Phæodidymæ*.

**PHÆOSPHÆRELLA** Karst. — Syll. IX, p. 723.

1. *Phæosphærella Juncaginearum* (Lasch et Schröt.) Sacc. *Mycosphærella* Schröt. Pilze Schles. II, p. 342, *Dothidea* Lasch. *Asteroma* Rabenh., Syll. III, p. 214 (stat. ster.). 1917

*Hab.* in fructibus, foliis et caulibus *Triglochinis* in Germania. — *Perithecia* globulosa 50  $\mu$ . diam.; asci 50-55  $\approx$  11-15; sporidia 15-17  $\approx$  6-6,5 1-septata, olivaceo-brunnea.

2. *Phæosphærella Typhæ* (Schröt.) Sacc. *Mycosphærella Typhæ* Schröt. Pilze Schles. II, p. 342. 1918

*Hab.* in foliis emortuis et calamis *Typhæ angustifoliæ* in Silesia. — *Perithecia* 130-150  $\mu$ . diam.; asci 60-65  $\approx$  17-20; sporidia 17-20  $\approx$  5-6,5 constricto-1-septata, olivaceo-brunnea.

3. *Phæosphærella phæidasca* (Schröt.) Sacc. *Mycosphærella* Schröt. Pilze Schles. II, p. 342. 1919

*Hab.* in calamis *Junci Leersii* in Silesia. — *Perithecia* punctiformia, globulosa; asci 40-45  $\approx$  17-22; sporidia 20-24  $\approx$  5,5-6 constricto-1-septata, olivaceo-brunnea.

**DIDYMOSPHERIA** Fuck. — Syll. I, p. 701, IX, p. 728.

1. *Didymosphæria Clematidis* Fautr. Rev. Myc. 1893, p. 17. 1920

*Hab.* in caulibus *Clematidis Vitalbæ*, Côte-d'Or Galliæ. — *Perithecia* gregaria; asci 100  $\approx$  5-6; sporidia 10-12  $\approx$  4, constricto-1-septata, flava.

2. **Didymosphæria Drabæ** Rostr. Bidr. Ascom. Dovr. p. 8. 1921  
*Hab.* in caulibus emortuis *Drabæ hirtæ* in Groenlandia. —  
*Perithecia* hemisphærica, pertusa; asci 75-100  $\mu$  15; sporidia 35-40  $\mu$  6-7, flavida.
3. **Didymosphæria Tecomæ** (Berk. et Curt.) Cooke Grev. XX, p. 82, 1922  
*Sphæria Tecoma* B. et C. in Herb. — Caulicola, sparsa, tecta; peritheciis innatis, minutis, subglobosis, papillatis, atris; ascis clavatis, octosporis; sporidiis elliptico-fusiformibus, biserialibus, uni-septatis, fuscis, 10-12  $\mu$  4.  
*Hab.* in sarmentis *Tecomæ radicans* in Carolina Amer. bor. — *Sphæria Micheneri* B. et C. in Herb. Kew. videtur eadem species, immatura.
4. **Didymosphæria manitobensis** E. et E. North Am. Pyr. p. 732. 1923  
*Hab.* in foliis *Rubi*, Manitoba Amer. bor. (DEARNESS). — *Perithecia* 150-200  $\mu$ . diam.; asci 65-75  $\mu$  8-10; sporidia 12-15  $\mu$  4-5 1-septata, brunnea.
5. **Didymosphæria Cassiopes** Rostr. Oest. Grönl. Svampe p. 22. 1924  
*Hab.* in foliis siccis *Cassiopes tetragonæ* in Groenlandia. — *Perithecia* 0,5 mm. diam., globoso-papillata. Asci 40  $\mu$  18-20 sporidia constricto-1-septata, fusca, 18-24  $\mu$  7-8.
5. **Didymosphæria vagans** E. et E. New Fung. in Proceed. Acad. N. 1925  
*Sc. Philad.* 1893, p. 446.  
*Hab.* in ramis emortuis *Ostryæ*, *Caryæ* et *Ulmi*, Canada (DEARNESS). — *Perithecia* 0,2-0,2 mm. diam.; asci 100-110  $\mu$  12; sporidia 15-20  $\mu$  9-11, 1-septata, brunnea.
6. **Didymosphæria populifolia** Ell. et Ev. Proc. Acad. Phil. 1894, p. 335. 1926  
*Hab.* in foliis dejectis *Populi angulatæ*, Canada (DEARNESS). — *Perithecia* 80-100  $\mu$ . diam.; asci 65-75  $\mu$  8-10; sporidia 12-14  $\mu$  3,5-4,5 1-septata, brunnea.
7. **Didymosphæria graminicola** E. et E. New west-Amer. Fung. 19, 1927  
*Erythea* Vol. II, 1894.  
*Hab.* in culmis emortuis *Panici virgati*, Kansas (BARTHOLOMEW). — *Perithecia* 0,2-0,3 mm. diam.; asci 40-50  $\mu$  6-7; sporidia 8-9  $\mu$  4 constricto-1-septata, brunnea.
8. **Didymosphæria Ammophilæ** Fautr. et Roum. Rev. Myc. 1892, p. 4. 1928  
*Hab.* in foliis *Ammophilæ arenariæ* cultæ, Côte-d'Or Galliæ. — *Perithecia* perexigua; asci 40-45  $\mu$  6-8; sporidia 8-10  $\mu$  3 1-septata, mellea.
9. **Didymosphæria Arundinariæ** E. et E. North Am. Pyr. p. 732. 1929  
*Hab.* in culmis emortuis *Arundinariæ*, Louisiana Amer.

314 Pyrenomycetæ, Sphæriaceæ, Phæodidymæ, Massariella.  
 bor. (LANGLOIS). — Perithecia 0,3 mm. diam.; asci 50-70 × 12-15  
 (p. sp.); sporidia 16-25 × 5-6 1-septata, flavo-brunnea.

**MASSARIELLA** Speg. — Syll. I, p. 716, IX, p. 739.

1. *Massariella Xanthoxyli* Peck 46 Rep. p. 36. 1930  
*Hab.* in ramis *Xanthoxyli americani*, Mechanicville Amer.  
 bor. — Perithecia 0,5-0,7 mm. diam.; asci 8-spori; sporidia 60-  
 70 × 10-12 1-septata, hyalina dein colorata.
2. *Massariella exigua* Jaczews. Bull. Herb. Boiss. II, p. 664. 1931  
*Hab.* in ramis *Sambuci racemosæ*, Berne Helvetiæ (OTTH).  
 — Perithecia globulosa, exigua; asci 85 × 12; sporidia 20 × 4, 1-  
 septata, chlorina, halone mucoso obducta « Vix hujus generis ».
3. *Massariella microspora* (Otth) Jaczews. Bull. Herb. Boiss. II, p. 665. 1932  
*Hab.* in ramis emortuis *Aceris campestris*, Berne Helvetiæ  
 (OTTH). — Perithecia globoso-depressa, tecta; asci cylindracei; spo-  
 ridia 17-19 × 6, uniseptata, brunnea. « Potius *Didymosphæria* ».
4. *Massariella Rosæ* (Otth) Jaczews. Bull. Herb. Boiss. II, p. 667. 1933  
*Hab.* in ramis *Rosæ*, Berne Helvetiæ (OTTH). — Perithecia  
 globoso-depressa, tecta; asci cylindracei; sporidia 17-20 × 6-7, uni-  
 septata, non constricta, brunnea. « Potius *Didymosphæria* ».
5. *Massariella Lilacis* (Otth) Jacz. Bull. Herb. Boiss. II, p. 667, 1934  
*Cladosphæria* Otth \*) in Mittheil. Bern, 1871, p. 105.

\*) CL. ARTH. DE JACZEWSKY, qui in sua opella de Massariaceis helveticis  
 (*Monographie des Massariées de la Suisse* in Bull. Herb. Boiss. 1894, p. 661)  
 pluries citat clarum mycologum helveticum G. OTTH, silet de loco et titulo  
 ejusdem contributionum mycologicarum, quæ revera et me et mycographos  
 plures, ne dicam omnes, hucusque omnino latuere. Insertæ sunt in *Mitthei-  
 lungen der naturforschenden Gesellschaft in Bern* et earum, quas modo com-  
 parare potui tituli sequuntur:

G. OTTH, *Ueber die Pilzgattung Nyctalis* (1857, p. 139) — *Ueber die Brand-  
 und Rostpilze* (1861, p. 57) — *Vierter Nachtrag zu dem in N. 15-23 der  
 Mittheilungen enthaltenen Verzeichniss schweizerischer Pilze* (1863, p. 70)  
 — *Fünfter Nachtrag etc.* (1865, n. 155) — *Sechster Nachtrag etc.* (1868, p. 37)  
 — *Siebenter Nachtrag zu dem in der Mittheilungen vom Jahr 1844 ent-  
 haltenen Verzeichnisse schweizerischer Pilze und Fortsetzung der Nach-  
 träge vom Jahr 1846, 1850, 1857, 1863, 1865 et 1868* (1871, p. 88).

Plurimæ sunt species novæ et sat fuse descriptæ, quæ in contributionibus  
 citatis occurrunt et quæ neotericis fere omnino ignotæ sunt. Nec dicerem  
 omnes novitates Otthianas sistere bonas species; sed omnes certe jure merito-  
 que sedulo inquirendæ et comparandæ sunt. Id vero ad specimina originalia,  
 aggeri suscepit cl. de JACZEWSKY in opella citata, sed critica plenior et  
 acutior et citationes copiosiores (præsertim laboris Otthiani I) desiderantur.

*Hab.* in ramis *Syringæ vulgaris*, Berne Helvetiæ (OTTH).  
— Asci cylindricei; sporidia 18-22  $\approx$  11, 1-septata, brunnea. «Potius *Didymosphæria*».

6. *Massariella lantanicola* (Otth) Jacz. Herb. Boiss. II, p. 667, *Cladosp hæria* Otth in Mittheil. Bern. 1870, p. 106. 1935

*Hab.* in ramis *Viburni Lantanæ*, pr. Berne Helvetiæ. —  
Asci cylindricei; sporidia 18-22  $\approx$  9-10, 1-septata, fusca. Potius *Didymosphæria*.

**PROTOVENTURIA** Berl. et Sacc. — Syll. IX, p. 741.

1. *Protoventuria minor* Sacc. Bomm. Rouss. Contr. Myc. Belg. IV, 1936  
p. 263.

*Hab.* in ramis *Sarothamni scoparii*, Ebly Belgii (MARCHAL).  
— Perithecia ovoidea 70-90  $\mu$ . lat. 90-120  $\mu$ . alt., setulæ 40  $\approx$  6;  
asci 60-65  $\approx$  18-21; sporidia 21-24  $\approx$  8-10, 1-septata, fuliginea (sub-  
indè simulate 3-septata).

2. *Protoventuria Chusqueæ* Pat. Bull. Boiss. 1895, p. 69, t. II, f. 5. 1937

*Hab.* in culmis emortuis *Chusqueæ*, San Jorgie Æquatoriæ.  
— Perithecia subglobosa 0.7-1 mm. diam., setosa; asci 150-200  $\approx$   
30-40; sporidia 70-75  $\approx$  12, brunnea, constricta, 1-septata.

**AMPHISP HÆRIA** Ces. et De Not. — Syll. I, p. 718, IX, p. 741.

1. *Amphisphæria Saccardiana* Tognini Contr. Mic. Tosc. p. 9. 1938

*Hab.* in cortice vetusto *Pruni Cerasi* in Etruria. — Peri-  
thecia 130  $\mu$ . lat.; asci 63  $\approx$  23; sporidia 18  $\approx$  9, fuligineo-olivacea,  
1-septata.

2. *Amphisphæria Platani* E. et Ev. North Am. Pyr. p. 205. 1939

*Hab.* in cortice secedenti *Platani*, Louisiana Amer. bor.  
(LANGLOIS). — Perithecia 0.5 mm. diam.; asci 40-50  $\approx$  10-12 (p.  
sp.); sporidia 11-15  $\approx$  4-5, 1-septata, atrobrunnea.

3. *Amphisphæria Langloisii* E. et E. North Am. Pyr. p. 205. 1940

*Hab.* in ramis dejectis *Caryæ?*, Louisiana Amer. bor. (LAN-  
GLOIS). — Perithecia 1 mm. diam.; asci 100-125  $\approx$  15-20 (p. sp.);  
sporidia 30-40  $\approx$  10-12, 1-septata, brunnea.

4. *Amphisphæria nuda* E. et Ev. New-west Amer. Fung. 18, in Ery- 1941  
thea Vol. II, 1894.

*Hab.* in cortice *Celtidis occidentalis*, Kansas (BARTHO-  
LOMEW). — Perithecia 0.5-0.7 mm. diam.; asci 100-110  $\approx$  15; spo-  
ridia 15-18  $\approx$  6-8, 1-septata, brunnea.

5. *Amphisphæria dolioloides* Rehm, in Wegelin Beitr. Pyr. Schweiz. 1942  
p. 5, t. II, f. 18-20.

*Hab.* in ramulis decorticatis pineis pr. Burgdorf Helvetiæ.

— Perithecia 0,6 mm. diam.; asci 125-145 × 25-34; sporidia 34-39 × 14-15, constricto 1-septata, brunnea.

6. *Amphisphæria helvetica* Wegelin Beitr. Pyren. Schw. p. 4, t. II, 1943 f. 16-17.

*Hab.* in ligno pineo nudo pr. Bischofszell et Heinicswyl Helvetiæ. — Perithecia 0,5 mm. diam.; asci 170-200 × 20-22; sporidia 33-40 × 12-15, 1-septata, atrobrunnea.

7. *Amphisphæria deformis* Ell. et Langl. North Am. Pyr. p. 202. 1944

*Hab.* in ligno denudato Thujæ, Louisiana Amer. bor. (LANGLOIS). — Perithecia 0,3 mm. diam.; asci 75 × 7-8; sporidia 8-10 3,5-4, 1-septata, brunnea.

8. *Amphisphæria abiegna* Lamb. et Fautr. Rev. Myc. 1894, p. 75, 1945

tnb. CL f. 3. — Peritheciis sparsiusculis, solitariis, superficialibus; ascis clavatis; sporidiis bi-seriatis v. confertis, cylindraceis, curvulis, 1-septatis, fuligineo-pallidis, 4-guttatis, 12-16 × 4.

*Hab.* ad ligna abiegna, Côte-d'Or in Gallia.

9. *Amphisphæria Cocos* Roll. Bull. Soc. Mycol. 1891, p. 211, t. XIV, 1946 fig. 2.

*Hab.* ad petiolos *Cocos nucifera*, Golfe Jouan Galliæ merid. — Perithecia 0,5 mm. diam.; asci 90 × 10; sporidia 12-18 × 5, 1-septata, fusca.

10. *Amphisphæria incrustans* Ell. et Ev. North Am. Pyr. p. 201. 1947

*Hab.* in lignis putridis, Nebraska et Kansas Amer. bor. — Perithecia 250-300  $\mu$ . diam.; asci 70-75 × 12-15; sporidia 22-27 × 7-8 1-septata, brunnea.

11. *Amphisphæria macropoda* Sacc. Fungi Abyss. p. 4, t. XX, f. 5. 1948

— Peritheciis hinc inde confertis, ligno decorticato basi insculptis, opace atris, globulosis, glabris, breve acutiuscule papillatis, 0,5 mm. diam.; ascis clavatis, apice rotundatis, 36-40 × 6 p. sporif., in pedicellum prælongum, 45-50  $\mu$ . long. filiformem attenuatis, 8-sporis; sporidiis distichis, oblongo-fusoideis, utrinque obtusulis, 11-13 × 4-4,5, rectis, constricto 1-septatis, fuligineis, minute guttulatis v. eguttulatis; paraphysibus filiformibus ascum æquantibus, subinde furcatis.

*Hab.* in ligno aeri diu exposito, M. Dongolle pr. Ghinda col. Erythrææ. — Sporidiis minutis ascisque longe stipitatis dignoscenda species.



**DELITSCHIA** Auersw. — Syll. I, p. 732, IX, p. 747.

1. *Delitschia geminispora* Sacc. et Flag. Grev. XXI, p. 66, t. 184, 1949  
fig. 5. — Peritheciis hinc inde gregariis, basi adnata superficialibus globoso-papillatis nigris,  $\frac{1}{6}$ - $\frac{1}{8}$  mm. diam., glabris, carbonaceis, ostiolo rotundo exiguo pertusis; ascia tereti-clavatis, 150-160  $\times$  30, brevissime stipitatis, apice rotundatis, bisporis; paraphysibus filiformibus, copiosis; sporidiis ellipsoideis, constricto 1-septatis, 50-60  $\times$  30, grosse bi-guttatis, fuligineis, oculis obtuse conoideis, subinde tandem secedentibus.

*Hab.* in fragmentis ligneis quercinis putridis (an stercoratis), Rigny Galliæ (FLAGEOLET). — Eximia et distincta species.

**NEOPECKIA** Sacc. (1883). Syll. IX, p. 749, *Didymotrichia* Berl. Descr. nuovi gen. Pyr. p. 5 (Atti Congr. bot. Genov. 1892). — Cum typus meæ *Neopeckia* sit *N. Coulteri* (Peck), quæ typum quoque sistit *Didymotrichia* Berl., manifeste hoc postremum genus ut synonymon habendum est. Potius hoc nomen servari poterit *Neopeckia* speciebus, quæ non pilis longis flexuoso-dilabentibus, sed setulis brevibus vestitæ sunt, ut *N. fulcita*; quod tamen autopsia confirmandum.

1. *Neopeckia diffusa* (Schw.) Starb. Stud. p. 30, f. 17, *Sphæria* Schw. 1950  
Syll. II, p. 403, IX, p. 747 *Didymotrichia* Berl. l. c. t. XXII, fig. 3. — Perithecia 300  $\mu$ . diam.; hyphæ subiculi 5  $\mu$ . cr.; asci 60-70  $\times$  10-12; sporidia fusca, 1-septata, 16-20  $\times$  6-7.

Ad hoc quoque genus, observante Berlesio l. c., spectat: *Neopeckia rhodosticta* (B. et Br.) Sacc. *Lasiosphæria* Sacc. Syll. II, p. 213, *Didymotrichia* Berl. l. c. nec non *Neopeckia parietalis* (B. et C.) Sacc. *Enchnosphæria* Sacc. Syll. II, p. 207, *Didymotrichia* Berl. l. c.

**RHYNCHOSTOMA** Karst. — Syll. I, p. 730, IX, p. 750.

1. *Rhynchostoma Julii* Fabr., Syll. I, p. 731. — Var. *vestitum* Rehm 1951  
in Hedw. 1891, p. 256.

*Hab.* in lignis putrescentibus in Helvetia. — Perithecia 500  $\mu$ . lat. 300  $\mu$ . alt., rostro 300  $\mu$ . long.; asci 220-230  $\times$  16-17; sporidia 20-30  $\times$  11-12, constricto-1-septata-fuliginea.

**OTTHIA** Nits. — Syll. I, p. 735, IX, p. 752.

1. *Othia amica* Sacc. Bomm. Rouss. Contr. Myc. Belg. p. 244.

1952

*Hab.* in ramis emortuis *Buxi* sempervirentis in Belgic.



— Perithecia 300  $\mu$ . diam.; asci 150-270  $\times$  12-20; sporidia 22-30 11-15, 1-septata, fuliginea, strato hyalino tenuissimo obducta.

2. *Othia ostryogena* E. et E. in Proceed. Acad. S. N. Philad. 1893, 1953 p. 133.

*Hab.* in ramis emortuis *Ostryæ virginicæ*, Canada (DEARNESS). — Perithecia 0,3-0,5 mm. diam.; asci 100-120  $\times$  15; sporidia 20-25  $\times$  11-13, constricto-1-septata, brunnea.

3. *Othia quercicola* E. et E. North Am. Pyr. p. 250. 1954

*Hab.* in ramis emortuis *Quercus albæ*, Newfield N. J., Amer. bor. — Perithecia 150  $\mu$ . diam.; asci 75-80  $\times$  18-20; sporidia 18-22  $\times$  8-10, demum flavido-brunnea.

**ENDOXYLINA** Rom. Nägra ord om *Sph. astroidea* p. 173, (Etym. ab *Endoxyla*). Stroma *Endoxylæ* v. *Eutypæ*, sed sporidia 1-septata, fusca.

1. *Endoxylina stellulatæ* Rom. l. c. *Valsaria* Romell in Sacc. Syll. 1955 IX, p. 757.

2. *Endoxylina quercicola* (Berk.) Sacc. *Camarops quercicola* B. et 1956 Cooke Grev. XX, p. 81, *Eutypa quercicola* Berk. in Herb. — Stromate innato corticis substantia formato; peritheciis gregariis, subglobosis, immersis, prominulis, pertusis; ascis clavatis, longe stipitatis, octosporis; sporidiis lanceolatis, uniseptatis, medio constrictis, fuscis, 20  $\times$  4.

*Hab.* in corticibus *Quercus* in Carolina sup. Amer. bor.

**VALSARIA** Ces. et De Not. — Syll. I, p. 741, IX, p. 755.

1. *Valsaria staphylina* E. et E. in Proceed. Acad. S. N. Philad. 1893, 1957 p. 144.

*Hab.* in ramis emortuis *Staphyleæ trifoliæ*, Canada (DEARNESS). — Perithecia subcircinata 300-350  $\mu$ . diam.; asci 80-90  $\times$  7; sporidia 12-15  $\times$  7-8, constricto-1-septata, fuliginea.

2. *Valsaria allantospora* Ell. et Ev. Proc. Acad. Phil. 1894, p. 343. 1958

*Hab.* in ramis emortuis *Negundinis aceroidis*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 0,7-1 mm. diam.; 55-62  $\times$  8-10; sporidia 12-15  $\times$  3-3,5, curvula 1-septata, brunnea.

3. *Valsaria cornicola* E. et E. North Am. Pyr. p. 741. 1959

*Hab.* in ramis emortuis *Corni*, Canada (DEARNESS). — Perithecia 250  $\mu$ . diam.; asci 65-75  $\times$  7-8; sporidia constricto-1-septata 9-12  $\times$  4,5-5,5 brunnea.

4. *Valsaria Akebiæ* E. et E. North Am. Pyr. p. 557.

*Hab.* in caulibus emortuis *Akebiae quinatae*, Newfield N. J. Amer. bor. — *Perithecia* 200  $\mu$ . diam.; asci 100–110  $\times$  8–10; sporidia 12–18  $\times$  5–6 brunnea, 1-septata.

5. *Valsaria hypoxylodes* Ell. et Ev. Journ. Myc. 1892, VII, p. 131. 1961

*Hab.* in cortice arborum, Paraguay (MORONG). — *Perithecia* 250  $\mu$ . long.; asci 90–115  $\times$  12; sporidia uniseptata 12–15  $\times$  7–9 fuliginea. Halitus fere *Hypoxyli fusci*.

6. *Valsaria spurca* (B. et C.) Cooke Grev. XX, p. 81, *Sphaeria* Berk. 1962

et Curt. in Herb. Berk. — Pustulata, epidermide tecta dein erumpens; ascis clavatis; sporidiis ellipsoideis, 1-septatis, leviter constrictis, 25–30  $\times$  8–10, brunneis, strato hyalino crasso obductis.

*Hab.* in corticibus in America bor. (MURRAY).

**XYLOBOTRYUM** Pat. Bull. herb. Boiss. 1895, p. 69 (Etym. *xylon* lignum et *botrys* racemus). — Stroma erectum subteres, carbonaceo-coriaceum. *Perithecia* libera, apice stromatis botryoso-aggregata; asci 8-spori; sporidia ovalia, 1-septata, fuliginea.

1. *Xylobotryum andinum* Pat. Bull. Boiss. p. 69, t. II, fig. 2, 1895, 1963

*Hab.* in ligno decorticato putri, San Jorgie Æquatoriae. — Stroma 4–8 mm. alt., simplex vel ramosum 1–2 mm. cr.; *perithecia* 0,3–0,5 mm. long.; asci 90–100  $\times$  10; paraphyses 150  $\mu$ . long.; sporidia 10–13  $\times$  3–4, fusco-brunnea.

### Sect. 6. Phaeophragmiae.

**MASSARIA** De Not. — Syll. II, p. 2, IX, p. 759.

1. *Massaria berberidicola* (Othth) Jaczews. Bull. Herb. Boiss. II, p. 673, 1964

*Cladosphaeria* Othth in Mitth. Bern. 1871, p. 105.

*Hab.* in ramis *Berberidis vulgaris*, Thoune et Berne Helvetiae (Othth). — *Perithecia* globosa, immersa; asci 180  $\times$  25; sporidia brunnea, 34–38  $\times$  12–14, constricto 3-septata, verrucosa, mucro hyalino obducta.

2. *Massaria heterospora* Othth in Mitth. Bern, 1869, p. 48, Jaczews. 1965  
Bull. Herb. Boiss. II, p. 676.

*Hab.* in ramis *Tiliæ parvifoliæ* pr. Berne Helvetiae (Othth). — *Perithecia* globoso-depressa; asci 200  $\times$  30; sporidia 44–55  $\times$  13–16, fusca, bipartita, parte super. 1–3-septata, infer. 1–2-septata, mucro hyalino obvoluta.

3. *Massaria Oththii* Jacz. Bull. Herb. Boiss. II, p. 683, *Cladosphaeria* 1966  
*Corni* Othth in Mittheil. Bern. 1871, p. 107.

*Hab.* in ramis Corni maris, Berne Helvetiæ. — Perithecia tecta, globoso-depressa; asci 200  $\approx$  12-13, subsessiles; sporidia 21-28  $\approx$  8-10, brunnea, 3-septata, non constricta.

4. *Massaria bicolor* Jaczews. Bull. Herb. Boiss. II, p. 669, *M. Fu- 1967*  
*ckelii* Otth Mitth. Bern. 1868, p. 50.

*Hab.* in ramis Tiliæ, Berne Helvetiæ (Отт). — Asci cortice innati; asci clavati; sporidia 20-25  $\approx$  9-10, triseptata, strato hyalino obvoluta, loculis binis inter. brunneis, externis hyalinis.

5. *Massaria subpustulosa* (Otth) Jaczews. Bull. Herb. Boiss. II, p. 681 1968  
*Cladosphæria* Otth in Mittheil. Bern. 1871, p. 108.

*Hab.* in ramis Fagi pr. Berne Helvetiæ (Отт). — Perithecia tecta, gregaria; asci teretes, subsessiles, 150  $\approx$  10; sporidia 18-23  $\approx$  8-9, 3-septata, non constricta, brunneola, strato tenui hyalino obducta.

6. *Massaria Saccardiana* Jaczews. Bull. Herb. Boiss. II, p. 683. 1969

*Hab.* in ramis Ribis alpini pr. Neuchâtel (Morthier). — Perithecia sparsa, tecta, globoso-lenticularia, papillata; asci 125-130  $\approx$  10-12, paraphysati; sporidia 16  $\approx$  6, brunnea, 3-septata, non constricta, strato mucoso non indicato. Cum mea *Melasphæria Massarina* nil commune habet, sed potius *Leptosphæria* species videtur.

7. *Massaria platanicola* Nitschke in Otth Mitth. Bern, 1868, p. 50, 1970  
Jaczews. Bull. Herb. Boiss. II, p. 681 *Cladosphæria minutula* Otth.

*Hab.* in ramis Platani, Aceris, Tiliæ pr. Berne Helvetiæ (Отт). — Perithecia globoso-depressa, minuta; asci clavati subsessiles; sporidia 21-23  $\approx$  5-6, constricto-3-septata, brunnea, strato mucoso non indicato. « An diversa a *Leptosphæria vagabunda* Sacc.?»

8. *Massaria Hippophaes* (Sollm.) Jaczews. Bull. Herb. Boiss. II, p. 684 1971  
*Sphæria* Sollm. Syll. II, p. 343 (nomen), *Cladosphæria* Nitschke.

*Hab.* in ramis Hippophaes, Berne Helvetiæ (Отт). — Perithecia tecta, globoso-lenticularia; asci 135  $\approx$  10; sporidia 3-septata, haud constricta, brunnea, 15-22  $\approx$  7,5-9, strato hyalino non indicato. « Potius *Leptosphæria* ».

9. *Massaria fagicola* Allesch., Syll. IX, p. 760, teste ipso auctore, non est diversa a *M. macrospora*.

**CLADOSPHÆRIA** Nitschke, sec. Jaczewski Bull. Herb. Boiss. II, p. 685, (Etym. *clados* ramus et *Sphæria*). — Perithecia cortice innata, globoso-lenticularia, vix ostiolo papillato erumpentia; asci fusoides,

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paraphysati, pedicellati; sporidia cylindræa, arcuata, 7-septata,  
non constricta, brunnea.

1. *Cladosphæria eunomioides* (Otth) Nitschke apud Otth in Mittheil 1972  
Naturf. Gesellsch. Bern. 1871, p. 110, Jacz. I. c.

*Hab.* in ramis Fraxini pr. Berne Helvetiæ (Отт). — Spori-  
dia, 22-28  $\approx$  5-6, in medio asco, *Valsæ* ad instar, stipata

**LEPTOSPHÆRIOPSIS** Berl. Icon. fung. I, p. 88 (Etym. a *Leptosphæ-*  
*ria*, cui affinis). — Perithecia et asci *Leptosphæriæ*; sporidia cy-  
lindræa intra ascum apicibus per paria connexa et tunc octona  
et longe bacillaria evadentia, extra ascum secedentia et tum 16,  
breviora, 7-septata, evadentia.

1. *Leptosphæriopsis ophioboloides* (Sacc.) Berl. I. c. t. LXXXI, f. 1. 1973  
*Leptosphæria* Sacc. Syll. IX, p. 770.

**LEPTOSPHÆRIA** Ces. et Dé Not. — Syll. II, p. 13, IX, p. 762, I,

I. Sporidia 2-3-septata.

1. *Leptosphæria melanommoides* Fautr. Rev. Myc. 1891, p. 128.

*Hab.* in caulibus emortuis Petroselinæ, Côte-d'Or Galliæ. 1974  
— Perithecia globulosa mox denudata; asci 90-100  $\approx$  9-10; spori-  
dia 20-25  $\approx$  5,5-6, triseptata, pallide fuliginea.

2. *Leptosphæria brachyasca* Rostr. Till. Grönl. Svamp. p. 618.

*Hab.* in caulibus et foliis Saxifragæ oppositifoliæ in 1975  
Groenlandia. — Perithecia 75-85  $\mu$ . diam.; asci 40-45  $\approx$  15-20;  
sporidia 3-septata, fusca, 15-18  $\approx$  5-6.

3. *Leptosphæria Phaseoli* Fautr. et Roum. Rev. Myc. 1892, p. 6.

*Hab.* in caulibus siccis Phaseoli vulgaris, Côte-d'Or Gal. 1976  
liæ. — Perithecia subglobosa, nitidula; asci 95-100  $\approx$  6-8; sporidia  
33-39  $\approx$  3,5-4 olivacea, 3-septata.

4. *Leptosphæria Solani* E. et E. in Proceed. Acad. S. N. Philad. 1893,  
p. 136. 1977

*Hab.* in foliis vivis Solani Dulcamaræ, Canada (DEARNESS).  
— Perithecia 150  $\mu$ . diam.; asci 55-60  $\approx$  8; sporidia 16-20  $\approx$  2,5-3  
flavida, constricto-3-septata.

5. *Leptosphæria Opizii* Nits., in Schröt. 'Pilze Schles. II, p. 358.

*Hab.* in caulibus emortuis Solani Dulcamaræ, in Silesia. 1978  
— Perithecia 0,3-0,4 mm. diam.; asci 80-100  $\approx$  8-9; sporidia 3-  
septata, flavo-brunnea, 15-17  $\approx$  4,5-5.

6. *Leptosphæria Picridis* Fautr. et Lamb. Rev. Myc. 1894, p. 75. — 1979  
Peritheciis gregariis, atris, obtectis, ostiolo emergentibus; ascis cla-

- 322 Pyrenomycetæ, Sphæriacæ, Phæosphragmiæ, Leptosphæria.  
viformibus, curvæ pedicellatis; sporidiis sæpe biseriatis, fusiformi-  
bus, obtusis, 3-septatis, ex hyalino flavo-brunneis, 20-22 × 6-8.
- Hab.* ad caules Picridis hieracioidis, Côte-d'Or in Gallia.
7. **Leptosphæria Rumicis** Fautr. Rev. Myc. 1891, p. 168. 1980  
*Hab.* in caulibus emortuis Rumicis Patientiæ, Côte-d'Or  
Galliæ. — Perithecia depressa, late pertusa; asci 100 × 20; sporidia  
20 × 6, 3-septata fuliginea.
8. **Leptosphæria Sarothamni** Lamb. et Fautr. Rev. Myc. 1893, p. 115. 1981  
*Hab.* in ramulis Sarothamni scoparii, Morvan Galliæ.  
— Perithecia subcoriacea, inæqualia; asci 80 × 10; sporidia 20 × 4  
flavido-brunnea, constricto 3-septata.
9. **Leptosphæria borealis** E. et E. North Am. Pyr. p. 353. 1982  
*Hab.* in ramis decorticatis Salicis, Montana Amer. bor. (KEL-  
SEY). — Perithecia 0,3-0,5 mm. diam.; asci 150-170 × 8; sporidia  
18-22 × 5-7, 3-septata, brunnea.
10. **Leptosphæria Ribis** Karst. in Rev. Myc. 1892, p. 172. 1983  
*Hab.* in ramulis vivis Ribis alpini, Côte-d'Or (ROLLAND). — Pe-  
rith. tecta, minuta; asci 50 × 10; sporidia 14-16 × 4 3-septata, flava.
11. **Leptosphæria Sambuci** Fautr. Rev. Myc. 1892, p. 7. 1984  
*Hab.* in ramulis siccis Sambuci nigræ, Côte-d'Or Galliæ.  
— Perithecia sphaerica, vix erumpentia; asci 100-200 × 8; sporidia  
20-23 × 8 constricto-3-septata, olivacea.
12. **Leptosphæria revocans** Sacc. *Leptosphæria melanommoides* Berl. 1985  
Ic. fung. I, p. 54, t. 40, f. 2 (1892) nec Fautr. (1891).  
*Hab.* in ramis emortuis Buxi sempervirentis in Belgio  
(MARIA ROUSSEAU). — Perithecia sparsa 0,3-0,5 mm. diam.; asci 65-75  
× 10-12; sporidia 14-16 × 5-6, constricto-3-septata, atro-olivacea.
13. **Leptosphæria faginea** Passer. Diagn. fung. nuovi, V, n. 9. — Peri- 1986  
theciis sparsis vel subgregariis, tectis, in cortice nidulantibus, glo-  
boso-depressis, atris, ostiolo papillato, epidermidem vix perforante;  
ascis subclavatis, paraphysatis, 8-sporis, 35-40 μ. longis; sporidiis  
stipatis, cylindricis, utrinque obtusis, rectis vel curvulis, 3-septatis,  
ad septa constrictis, castaneo-fuscis, 12 × 2,5-3.  
*Hab.* in ramulis emortuis Fagi, alla Cisa Appennini Par-  
mensis. — *Leptosphæria Avellanæ* H. Fabr. proxima, sed ascis  
sporidiisque multo minoribus etc. diversa.
14. **Leptosphæria viticola** Fautr. et Roum. Rev. Myc. 1892, p. 6. 1987  
*Hab.* in sarmentis Vitis viniferæ, Côte-d'Or Galliæ. — Pe-  
rithecia rugulosa dein collabentia; asci 60-65 × 8-10; sporidia 16-  
18 × 4, rarius 22 × 6, constricto-3-septata, olivacea.

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15. **Leptosphæria concentrica** E. et E. North Am. Pyr. p. 354. 1988  
*Hab.* in foliis Piri Mali, Columbia et Louisiana Amer. bor.  
 — Perithecia maculicola; asci 50–55 × 10 (p. sp.); sporidia 12–14  
 × 4–5, flavido-brunnea, 2-septata.
16. **Leptosphæria Juniperi** Fautr. Rev. Myc. 1895, p. 70, t. 153, f. 6. 1989  
*Hab.* in ramulis siccis Juniperi communis, Côte d'Or Galliæ.  
 — Perithecia globosa papillata; asci 70–80 × 12–15, sporidia 18–20  
 × 6, triseptata, non constricta.
17. **Leptosphæria Lilii** E. et Dear. in Proceed. Acad. S. N. Philad. 1990  
 1893, p. 136.  
*Hab.* in foliis Lilii superbi, Canada (DEARNES). — Peri-  
 thecia 150–200  $\mu$ . diam.; asci 50–60 × 7; sporidia 3-septata, 15–18  
 × 3 flava; adest spermogonium: *Phyllosticta Lilii* Ell. et Dearn.  
 l. c. sporulis 4–5 × 2–3, hyalinis.
18. **Leptosphæria Kunzeana** Berl. Ic. fung. I, p. 66, t. 52, f. 5. 1991  
*Hab.* in calamis Typhæ latifoliæ in Germania. — Peri-  
 thecia sparsa 200  $\mu$ . diam.; asci 80–90 × 20–25; sporidia 3-septata,  
 25–28 × 10–12, melleo-fulva.
19. **Leptosphæria Pseudo-Diaporthe** Oud. Contr. Myc. Pays-bas XIV, p. 34. 1992  
*Hab.* in calamis siccis Junci effusi, in Hollandia. — Peri-  
 thecia 100–160  $\mu$ . diam.; asci 40 × 18; sporidia 3-septata, fuligineo-  
 olivacea, 20–25 × 7.
20. **Leptosphæria caricicola** Fautr. Rev. Myc. 1893, p. 20. 1993  
*Hab.* in foliis Caricis ripariæ, Côte-d'Or Galliæ. — Pe-  
 rithecia subglobosa, minuta; asci 60–70 × 6–8; sporidia 18–21 × 4.  
 triseptata, olivacea.
21. **Leptosphæria caricina** Schröt. Pilze Schles. II, p. 361. 1994  
*Hab.* in foliis emortuis Caricis, in Silesia. — Perithecia 60–70  
 $\mu$ . diam.; 40–45 × 11–13; sporidia 3-septata, flavo-brunnea, 20 × 5.
22. **Leptosphæria muricata** E. et E. New Fung. in Proceed. Acad. 1995  
 N. Sc. Philad. 447.  
*Hab.* in foliis Andropogonis muricati, Louisiana Amer.  
 bor. (LANGLOIS). — Perithecia 150–250  $\mu$ . diam.; asci 65–70 × 5–6;  
 sporidia 10–11 × 2,5–3, flava, biseptata.
23. **Leptosphæria punctiformis** Passer. Diagn. Funghi nuovi V, n. 10. 1996  
 — Peritheciis sparsis minutissimis, globosis, membranaceis, atris,  
 ostiolo acuto erumpenti; ascis clavatis, aparaphysatis, sessilibus,  
 50–62 × 10; sporidiis octonis, distichis, subfusiformibus superne ro-  
 tundatis, inferne acutis, 3-septatis, ad septa vix constrictis, oculis  
 minute guttulatis, 15–17,5 × 5, fuscis.



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*Hab.* in caule fracido Zeæ Maydis, Vigheffio, Parma Ital. bor.

24. **Leptosphæria vaginæ** Passer. Diagn. Funghi nuovi V, n. 11. — 1997  
Peritheciis sparsis, tectis, globosis, ostiolo acuto erumpenti; ascis paraphysatis elongato-clavatis, 8-sporis, 100-150 = 18-20; sporidiis distichis, oblongato-fusiformibus, utrinque obtusis, rectis vel curvulis, 5-septatis, flavo-castaneis, medio vix vel non constrictis, 25-32 = 10-12, loculis guttulatis.

*Hab.* in vaginis putrescentibus Phragmitis communis, Baganza, pr. s. Ruffino, Parma Ital. bor. — A *Leptosphæria Typharum* (Desm.), cui similis, ascis sporidiisque 5-septatis majoribus differt.

25. **Leptosphæria Sacchari** v. Breda Rood. Rot. p. 25. 1998

*Hab.* in foliis Sacchari officinarum in Java. — Perithecia 140  $\mu$ . diam.; sporidia 3-septata, 20-24  $\times$  5, brunneola.

26. **Leptosphæria fimbriata** E. et E. North Am. Pyr. p. 357. 1999

*Hab.* in caulibus herbaceis emortuis, Utah Amer. bor. — Perithecia 200-300  $\mu$ . diam., basi mycelio fimbriata; asci 80-90 = 15-18; sporidia 20-24  $\times$  5-6, 3-septata, brunnea.

27. **Leptosphæria papyricola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 337. 2000

*Hab.* in charta putrescenti dejecta, Newfield N. J. Amer. bor. — Perithecia 110-130  $\mu$ . diam.; asci 60-70  $\times$  5 (p. sp.); sporidia 15-20  $\times$  2,5-3, flava, constricto 3-septata.

## II. Sporidia 5-pluriseptata.

28. **Leptosphæria rhopalisporea** Berl. Icon. fung. I, p. 81, t. 72, f. 2. 2001

*Hab.* in caulibus Crithmi maritimi et Inulæ crithmoidis in Gallia. — Perithecia sparsa 250  $\mu$ . diam.; asci 85-95 = 8-10; sporidia 23-26 = 5-6, 5-7-septata, clavata, curvula, flavida.

29. **Leptosphæria Capsularum** Cavara F. Longob. exs. n. 174, c. ic. 2002

*Hab.* in capsulis siccis Cœnotheræ biennis pr. Pavia It. bor. — Perithecia 260 = 200; asci 10-100 = 12-14; sporidia sub-5-septata, 22-24 = 7-8, luteo-olivacea.

30. **Leptosphæria lasioderma** E. et E. in Proceed. Acad. S. N. Phil. 2003  
lad. 1893, p. 135.

*Hab.* in caulibus emortuis Artemisiæ tridentatæ, Nevada Amer. bor. (JONES). — Perithecia 0,5-0,7 mm. diam., setulis 100-150 = 5-6 vestita; asci 65-75 = 15-20; sporidia 25-30 = 10-12, aurea, constricto-septata (3-septata?).

31. **Leptosphæria camphorata** Passer. Diagn. Fungh. nuovi, V, n. 8. 2004  
— Peritheciis sparsis, vix ostiolo minuto, atro, erumpentibus, con-



Pyrenomycetææ, Sphæriacææ, Phæophragmiæ, Pocosphæria. 325  
 textu parenchymatico brunneo; ascis clavatis, sessilibus vel brevissime stipitatis, 8-sporis, 75-100 - 15-16; sporidiis distichis, crasse fusiformibus, utrinque acutis, 3-5-septatis, ad septa non vel vix constrictis, loculis non guttulatis, 27,5-30 - 7,5 melleo-olivaceis.

*Hab.* in caulibus siccis *Artemisiæ camphoratae*, Vigheffio, Parma Ital. bor.

32. **Leptosphæria crustacea** Schröt. Pilze Schles, II, p. 365. 2005

*Hab.* in caulibus emortuis *Artemisiæ campestris*, in Silesia. — Perithecia 0,3-0,4 mm. diam.; asci 90-100 - 16-20; sporidia 5-septata, flavo-brunnea, 60-66 - 7-8.

33. **Leptosphæria sambucina** Ell. et Ev. Proc. Acad. Phil. 1894, p. 336. 2006

*Hab.* in ramis *Sambuci melanocarpæ*, Colorado Amer. bor. (BACKER). — Perithecia 350-400  $\mu$ . diam.; asci 100-120 - 12; sporidia 22-27 - 6-7 aurea, demum 6-septata.

34. **Leptosphæria puteana** E. et K. North Am. Pyr. p. 368. 2007

*Hab.* in ramis quercinis, Kansas Amer. bor. — Perithecia 200  $\mu$ . diam. erumpentia; asci 75 - 15-18; sporidia 20-27 - 6-8, 6-8-septata, atrobrunnea.

35. **Leptosphæria Triglochinis** Schröt. Pilze Schles. II, p. 366. 2008

*Hab.* in calamis et fructibus emortuis *Triglochinis palustris*, in Silesia. — Perithecia 0,2 mm. diam.; asci 60-70 - 15; 5-septata, colorata.

36. **Leptosphæria occidentalis** E. et E. New West-Amer. Fung. p. 20 2009  
 in *Erythea* Vol. II, 1894.

*Hab.* in culmis emortuis *Panici Crus-Galli*, Kansas (BARTHOLOMEW). — Perithecia subelliptica 175-230  $\mu$ . long.; asci 75-85 - 12-15; sporidia 5-8-septata, flavido-brunnea 30-40 - 7-8.

37. **Leptosphæria Hazslinszkiana** Berl. Icon. fung. I, p. 78, t. 67, f. 1. 2010

*Hab.* in culmis graminaceæ cujusdam in Germania. — Perithecia sparsa 0,3 mm. diam.; asci 105-115 - 14-16; sporidia 38-42 - 8-10, brunnea, loculis extimis pallidioribus, constricto-5-septata.

38. **Leptosphæria limosa** Fautr. Rev. mycol. 1891, p. 128. 2011

*Hab.* in caulibus *Equiseti limosi*, Côte-d'Or Galliæ. — Perithecia majuscula, seriata, globoso-conica; asci 150-180 - 10-15; sporidia 5-septata, constricta, dilute fuliginea. 30-32 - 6-8.

**POCOSPHERIA** Sacc. Syll. II, p. 32 (ut subgenus), Berl. Ic. fung. I, p. 89 (Ety. *pocos* villus et *Sphæria*). — Perithecia setosa; asci et sporidia *Leptosphæriæ*. Huc spectant *Poc. setulosa* S. et R.

Berl. l. c. t. LXXXI, f. 2. *Poc. eriophora* (Cooke) Berl. l. c. t. LXXXI, fig. 3 et aliæ species in Syll. II. p. 32, et 87.

**PASSERINIELLA** Berl. Icon. fung. I, p. 51 (Etym. ab eximio mycol. JOH. PASSERINI). — *Perithecia rami-culmicola*, atra, globuloso-conoidea, ostiolo papillato; asci 8-spori; sporidia 3-5-septata, loculis mediis coloratis, extimis hyalinis. — Huc spectat *Passeriniella dichroa* (Pass.) Berl. l. c. t. 38, f. 1, *Leptosphæria* Pass. Syll. IX, p. 778, *Passer. incarcerationa* (B. et C.) Berl. l. c. tab. 58, fig. 5, *Leptosphæria* (B. et C.) Sacc. Syll. II, p. 86. et *Passer. circinans* (Fuck.) Sacc. Syll. II, p. 88 (*Leptosph.*).

**CLYPEOSPHÆRIA** Fuck. — Syll. II, p. 90, IX, p. 798.

1. *Clypeosphæria minor* E. et E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 138. 2012

*Hab.* in ramis et radice *Betulæ*, Canada (DEARNESS). — *Perithecia* 0,5 mm. diam.; asci 50-55 × 5; sporidia 3-septata, olivaceo-brunnea, 10-12 × 2,5-3.

2. *Clypeosphæria imperfecta* E. et E. North Am. Pyr. p. 410. 2013

*Hab.* in cortice vivo *Betulæ*, Syracuse N. Y. Amer. bor. (UNDERWOOD). — *Perithecia* 0,5 mm. diam.; asci 80-100 × 20; sporidia 3-septata, brunnea, 20-30 × 10-12, leviter constricta. Habitus fere *Pyrenulæ*.

3. *Clypeosphæria ulmicola* E. et E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 138. 2014

*Hab.* in ramis emortuis *Ulm*i, Canada (DEARNESS). — *Perithecia* elypeata 0,5 mm. diam.; asci 75-85 × 8-9 (p. sp.); sporidia 14-16 × 7-8, constricto-3-septata, brunnea.

4. *Clypeosphæria sanguinea* E. et E. North Am. Pyr. p. 409. 2015

*Hab.* in ligno aeri diu exposito in Pennsylvania et Kansas, Amer. bor. — *Perithecia* minuta 100 µ. diam. lignum sanguineo tingens; asci 40-50 × 7-8; sporidia constricto-3-septata, brunnea 12-15 × 3,5-4,5.

**CHÆTOSPHÆRIA** Tul. — Syll. II, p. 92, IX, p. 799.

1. *Chætosphæria Togniniana* Cavar. Mycol. Lomb. p. 21, tab. 26, f. 9-12. 2016

— Byssiseda; peritheciis sparsis, globoso-conicis, nigrofuscis, opacis, scabriusculis, pilosis, ostiolo papillæformi præditis; pilis undique sparsis, nigris, cylindræis, subrectis, remote septatis, apice inflatulis; ascis cylindræo-clavatis, 150-170 × 10-12, apice

Pyrenomycetæ, Sphæriacæ, Phæophragmiæ, Melanomma. 327  
 truncatis, basi longe attenuatis, tetrasporis, numerosis paraphysibus intermixtis; sporiolis navicularibus, rectis aut vix curvulis, utrinque attenuatis, 4-ocularibus, loculis mediis viridulis, singulis sæpe globulo achroo præditis, extimis incoloribus, 26-32  $\approx$  9-11; conidiis dilute olivaceis 22-24  $\approx$  4 longe ellipticis, triseptatis, ex hyphis byssaceis, tenuissimis, elongatis orientibus.

*Hab.* ad lignum putrescens in Horto botanico Papiæ Ital. bor.

2. **Chætosphæria Potentillæ** Rostr. Oest-Grönl. Svampe p. 23. 2017

*Hab.* in foliis caulibusque Potentillæ niveæ in Groenlandia. — Perithecia conica, byssiseda. Asci 38-45  $\approx$  22-25; sporidia fusca, 3-septata, vix constricta, 18-20  $\approx$  7-8.

**MELANOMMA** Nits. et Fuck. — Syll. II, p. 98, IX, p. 801.

1. **Melanomma dealbatum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 328. 2018

*Hab.* in ligno diu aeri exposito Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 200-225  $\mu$ . diam. collabentia; asci 75-110  $\approx$  10-12; sporidia 3-septata, pallide brunnea, 12-15  $\approx$  6-7.

2. **Melanomma rhyodes** E. et E. New West-Amer. Fung. p. 17, Erythea Vol. II, 1894. 2019

*Hab.* in cortice Populi moniliferæ adhuc vivæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia pruinosa 0,5 mm. diam.; asci 80-100  $\approx$  12-15; sporidia 3-septata, olivaceo-brunnea, 19-22  $\approx$  7-8.

3. **Melanomma leptosphærioides** Passer. Diagn. F. nuovi V, n. 12. — 2020  
 Peritheciis lignicolis, superficialibus, crebre sparsis, pusillis, subglobosis, ostiolo minuto papillari; ascis tubulosis, paraphysatis, 75-85  $\approx$  9-10, 8-sporis; sporidiis distichis, fusiformibus, 7-9-septatis, loculis æqualibus, curvulis, 25  $\approx$  4-5, flavis.

*Hab.* in caulibus siccis nudatis Pulicariæ viscosæ in prov. Parma Ital. bor. — A *Leptosphaeria* non differt nisi peritheciis lignicolis.

4. **Melanomma epileucum** Passer. Diagn. F. nuovi V, n. 13. — Peritheciis minutis subglobosis in peridermio albicanti sparsis vel subgregariis, superficialibus, atris; ascis clavatis, spurie (?) paraphysatis, 8-sporis 62  $\approx$  15; sporidiis conglobatis vel subtristichis fusiformibus, primo integris, hyalinis, endoplasmate granuloso, pluriguttulato, tandem 3-5-septatis, non constrictis, flavo-fusculis 12,5  $\approx$  4-5. 2021

*Hab.* in cortice vetusto Ulmi campestris, Vigheffio pr. Parma Ital. bor.

5. *Melanomma asterostomum* Ell. et Ev. Proc. Acad. Phil. 1894, 2022 p. 328.

*Hab.* in cortice radicum Fagi, Granton, Ontario, Canada (DEARNESS). — Perithecia 0,2-0,3 mm. diam.; asci 45-50  $\approx$  8-10 (p. sp.); sporidia 12-15  $\approx$  3-4, olivaceo-brunnea, constricto-3-septata.

6. *Melanomma salicinum* Rostr. Till. Grönl. Svamp. p. 619. 2023

*Hab.* in ramis decorticatis Salicis glaucæ in Groenlandia. — Perithecia 0,5 mm. diam. globosa; asci 120-130  $\approx$  10-12; sporidia 30-35  $\approx$  6-8, flavo-fusca, 6-septata.

7. *Melanomma glaucinum* (Fr.) Starb. Stud. p. 32, f. 16, *Sphæria* 2024 Fr., Syll. II, p. 421. — Perithecia 300-400  $\mu$ . diam.; asci 120-125  $\approx$  17-25; sporidia 3-septata, olivaceo-fusca 20-25  $\approx$  10-12 (In peridermio Betulæ).

8. *Melanomma sporadicum* E. et Ev. North Am. Pyr. p. 186. 2025

*Hab.* in ligno decorticato Platani, Canada (DEARNESS). — Perithecia 300-350  $\mu$ . diam.; asci 100-110  $\approx$  15-20; sporidia 3-5 sæpius 3-septata, brunnea, 20-30  $\approx$  8-10.

9. *Melanomma moricolum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 328. 2026

*Hab.* in ramulis emortuis Mori, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 250  $\mu$ . diam.; asci 40-45  $\approx$  7 (p. sp.); sporidia 12-15  $\approx$  3-4, flavo-brunnea 3-septata.

10. *Melanomma alpestre* Ell. et Ev. Proc. Acad. Phil. 1894, p. 328. 2027

*Hab.* in ramis emortuis Arctostaphyli nevadensis, Mt. Paddo Wash. Amer. bor. (SUKSDORF). — Perithecia 1-1,2 mm. diam.; asci 110-150  $\approx$  10-12; sporidia 3-septata, brunnea, 18-22  $\approx$  5-6.

11. *Melanomma Piri* Mori Enum. Fungh. Mod. III, p. 69. 2028

*Hab.* in cortice Piri communis, Casinalbo, Modena Ital: bor. — Perithecia 470  $\mu$ . diam.; asci 200  $\approx$  36; sporidia 44-48  $\approx$  16-20 brunnea, 6-7-septata.

12. *Melanomma deciduum* E. et E. New Fung. Proceed. Acad. N. S. 2029 Philad. 1893, p. 445.

*Hab.* in ligno fraxineo et cedrino, N. York Amer. bor. — Perithecia 300-400  $\mu$ . diam.; asci 60-70  $\approx$  6; sporidia triseptata, medio constricta, pallide brunnea, 15-18  $\approx$  3.

13. *Melanomma nitidulum* Bres. Pilz. Portoric. Sintenis p. 500. 2030

*Hab.* in ramulis corticatis Portorico (SINTEINIS). — Perithecia 0,5 mm. diam. umbilicata; asci 100-120  $\approx$  12-15; sporidia quinque-septata, luteola, 18-22  $\approx$  9-12.

14. *Melanomma subconicum* Ell. et Ev. Bull. Univ. Jowa 1893, p. 402. 2031

*Hab.* ad cortices, Castillo viejo Amer. centr. (SMITH). — Pe-

Pyrenomycetæ, Sphæriaceæ, Phæophragmiæ, Sporormia. 329  
rithecia depresso-conica, 1 mm. diam.; asci 100  $\approx$  10; sporidia obscure 3-4-septata, olivaceo-brunnea, 12-15  $\approx$  6-7, utrinque breve hyalino-apiculata.

15. **Melanomma cupulare** Clem. Bot. Surv. Nebr., Rep. III, 1893 p. 7. 2032

*Hab.* ad caudices, Saltillo, Nebraska Amer. bor. — Perithecia 250-300  $\mu$ . diam. collabentia; asci evanidi; sporidia triseptata, brunnea, cellulis extimis obtusis hyalinis, 25-28  $\approx$  5-6.

16. **Melanomma spiniferum** E. et E. North Am. Pyr. p. 184. 2033

*Hab.* in Corticio quodam effuso in trunco Mori rubræ, Delaware Amer. bor. (COMMONS). — Perithecia minuta 50-75  $\mu$ . diam., spinulis 20-25  $\approx$  4 sursum conspersa; asci 35-40  $\approx$  10-11; sporidia 3-septata, olivaceo-brunnea, 12-14  $\approx$  3-3,5. — E. sect. *Chætomastix* Sacc.

**TREMATOSPHERIA** Fuck. — Syll. II, p. 115 et IX, p. 811.

1. **Trematosphæria Fraxini** Ell. et Ev. Proc. Acad. Phil. 1894, p. 329. 2034

*Hab.* in ramis emortuis Fraxini viridis, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 0,3-0,5 mm. long. ellipsoidea; asci 70-80  $\approx$  12-15; sporidia constricto-3-septata, brunnea, 20-27  $\approx$  6-8.

2. **Trematosphæria vitigena** Ell. et Ev. Proc. Acad. Phil. 1894, p. 329. 2035

*Hab.* in ligno vetusto Vitis rupestris, Nuttallburg West Va. Amer. bor. (NUTTHALL). — Perithecia 0,5-0,7 mm. diam.; asci 86-100  $\approx$  10-12; spor. triseptata, constricta, pallide brunnea, 20-25  $\approx$  6-7.

3. **Trematosphæria hyalopus** E et Ev. New West-Amer. Fung. p. 18 2036  
in Erythea Vol. II, 1894.

*Hab.* in cortice vivo Fraxini viridis, Kansas, Amer. bor. (BARTHOLOMEW). — Perithecia 0,7-1 mm. diam., ostiolo cylindraceo-conico; asci 90-100  $\approx$  10 (p. sp.); sporidia 12-16  $\approx$  7-8, initio basi 1-septata, loculo imo hyalino, altero brunneo, probab. denique 1-septato.

**CARYOSPORA** De Not. — Syll. II, p. 122, IX, p. 815.

1. **Caryospora minor** Peck 44 Rep. p. 29, t. IV, f. 18-21. 2037

*Hab.* in pericarpio nucum Caryæ, Albany Amer. bor. — Perithecia 350-500  $\mu$ . diam.; asci cylindracei 4-8-spori, 150  $\approx$  20; sporidia 45-50  $\approx$  12, 1-septata, dilute colorata.

**SPORORMIA** De Not. — Syll. II, p. 123, IX, p. 816.

1. **Sporormia herculea** E. et E. North Amer. Pyr. p. 135. 2038

*Hab.* in fimo vaccino, Newfield N. J. Amer. bor. — Perithecia 0,5-0,7 mm. diam. ostiolo tereti-tuberculiformi; asci 250-340  $\approx$  50-60; sporidia 112-152  $\approx$  14-16, fuliginea, 9-12-septata, articulis extimis ovato-conoideis.

2. **Sporormia carpinea** Fautr. Rev. mycol. 1894, p. 162, t. 150, f. 8. 2039

*Hab.* in ligno Carpini putri ad terram, Côte-d'Or in Gallia. — Perithecia conica basi infossa; asci bi-tetraspori; sporidia 7-septata, fusca, 60  $\approx$  10-12.

**SPORORMIELLA** E. et Ev. North Am. Pyr. p. 136, nec Pirota (Etym. a *Sporormia* cui affinis). — Perithecia carnosula, stromate subcarnoso subplano immersis; asci et sporidia *Sporormiæ*.

1. **Sporormiella nigropurpurea** E. et Ev. l. c. 2040

*Hab.* in fimo vaccino, Newfield N. J. Amer. bor. — Perithecia 0,3 mm. diam. in stromate 0,5-1 cm. lat. immersa, nigropurpurea; asci 100-125  $\approx$  10-12; sporidia 16-20  $\approx$  4-5, atro-brunnea, 3-septata.

**PSEUDOVALSA** Ces. et De Not. — Syll. II, p. 135, IX, p. 820.

1. **Pseudovalsa viticola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 343. 2041

*Hab.* in sarmentis emortuis Vitis ripariæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 2-4 in quoque stromate 0,5-0,7 mm. diam.; asci 100-120  $\approx$  10-12; sporidia 3-septata, flavo-brunnea 15-20  $\approx$  8-9.

2. **Pseudovalsa subrufa** E. et E. New Californ. Fung. in Erythea 1893, p. 146. 2042

*Hab.* in ramis emortuis Rhodis sp. in California (BLASDALE). — Stroma 1,5-2 mm. diam.; perithecia 6-10 in quoque stromate, 300-400  $\mu$ . diam.; asci 75-85  $\approx$  7; sporidia 3-septata, brunnea, 12-15  $\approx$  4-5.

3. **Pseudovalsa caudata** E. et E. North Am. Pyr. p. 408 (ex errore sub *Massariovalsa*). 2043

*Hab.* in cortice emortuo Platani, Canada (DEARNESS). — Perithecia circinata 0,7 mm. diam.; asci 80-90  $\approx$  25-50; sporidia clavato-oblonga, 30-50  $\approx$  18-22, bi-tri-septata, hyalina dein olivaceo-brunnea, utrinque crasse hyalino appendiculata. «An diversa a *Ps. hapalocysti*?».

4. **Pseudovalsa ulmicola** E. et E. Proceed. Acad. N. Sc. Philad. 1893, p. 456. 2044

*Hab.* in ramis emortuis Ulmi, Canada (DEARNESS). — Stroma 0,5-1 cm. diam.; perithecia 0,5-0,7 mm. diam. 8-20-circinata; sporidia 20-28  $\approx$  5-7, flavo-brunnea, 1-3 septata.



5. **Pseudovalsa Smithii** Ell. et Ev. Bull. Univ. Iowa 1893, p. 404. 2045

*Hab.* in corticibus emortuis, Castillo viejo Amer. centr. (SMITH).  
— Perithecia 4-8 in quoque stromate 0,5 mm. diam.; asci non visi; sporidia 52-62 = 10-14, atro-brunnea, 3-septata, loculis extimis pallidioribus.

**THYRIDARIA** Sacc. — Syll. II, p. 140, IX, p. 821.

1. **Thyridaria crocosarca** (B. et Br.) Cooke Grev. XX, p. 83, *Melogramma* B. et Br. in Herb. 2046

*Hab.* in corticibus, Ceylon (THWAITES). — Perithecia 2-6 in quoque stromate, crocea, pruinosa; asci clavati 8-spori; sporidia 40 = 12, pallida, 7-11-septata, non constricta.

**KALMUSIA** Niessl — Syll. II, p. 142, IX, p. 822.

1. **Kalmusia stromatica** C. et Mass. Grev. XX, p. 8. — Stromate eutypoideo, effuso, elevato, nigro; peritheciis immersis, ostiolo prominenti; ascis tereti-clavatis; sporidiis elongato-fusoideis, 4-7-septatis, non constrictis, brunneis, 30 = 6. 2017

*Hab.* in ramis decorticatis pr. Oxford Britanniae (BAXTER).

2. **Kalmusia Breidlerii** Bäuml. Zur Pilzfl. Niederöst. VI, p. 93. 2048

*Hab.* in ligno interiore Castaneæ vascæ cavæ, Vindobonæ Austriæ (BREIDLER). — Perithecia 250-500  $\mu$ . diam.; asci 140 = 10-12; sporidia 23-28 = 6-8, 1-3-septata, brunnea.

**MELOGRAMMA** Fr. emend. Tul. — Syll. II, p. 144, IX, p. 824.

1. **Melogramma effusum** Peck 47 Rep. p. 26. 2049

*Hab.* in ligno putri, Canada (MACOUN). — Stroma effusum, nigrum; perithecia minuta; asci subcylindrici; sporidia 3-septata, curvula, 20-26 = 4-5, hyalina. «An *Melogramma*?».

2. **Melogramma biparasiticum** Pat. Bull. Boiss. 1895, p. 69. 2050

*Hab.* in caulibus *Bystropogonis* ad tumores a *Puccinia* formatos, Rio Machangara Æquatoriæ (LAGERHEIM). — Stroma effusum, atrum, 1-2 mm. cr.; perithecia immersa 250 = 300  $\mu$ . diam.; asci 110-130 = 13-15; sporidia 23-26 = 5-6, pallide brunnea, 3-septata, utrinque subapiculata.

3. **Melogramma columbiense** E. et E. New West Amer. Fung. in Erythraea p. 199. 2051

*Hab.* in ramis emortuis arboris cujusdam in Columbia, britannica (MACOUN). — Perithecia 150-200  $\mu$ . diam. in stromate 1 mm. diam. immersa; asci 100 = 12; sporidia 5-septata, hyalina, 18-20 = 6-7, loculo altero subinde longit. diviso. Vix *Melogramma*.



## Sect. 7. Hyalophragmiæ.

**MASSARINA** Sacc. — Syll. II, p. 153, IX, p. 824.

1. **Massarina Flageoletiana** Sacc. Grev. XXI, p. 66, t. 184, fig. 6 2052  
(ex err. typ. *Massaria*). — Peritheciis laxè gregariis, globosis, crassiusculis, subcoriaceis, atris,  $\frac{3}{4}$  mm. diam., peridermio colliculoso tectis, ostiolo minuto obtuso vix erumpenti; ascis tereti-clavatis,  $180 \approx 30$ , brevissime crasse stipitatis apice rotundatis, 6-8-sporis; paraphysibus filiformibus, guttulatis; sporidiis distichis, fusoidis, utrinque obtusulis, rectis v. leniter curvis, crasse globoso-6-guttatis, prope medium distincte 3-septatis, non constrictis,  $75 \approx 15$  hyalinis, guttis 1-seriatis subinde ocellatis, strato mucoso subnullo.

*Hab.* in ramis corticatis emortuis Viburni Opuli, Saone et Loire Galliæ (FLAGEOLET). — Eximia et distincta species.

2. **Massarina microspora** Passer. Diagn. F. nuovi V, n. 14. — Peritheciis subcutaneis, sparsis vel subgregariis, minutis, globosis, atris; ascis tubuloso-clavatis, breviter stipitatis,  $60-62,5 \approx 10$ , 8-sporis; sporidiis distichis, fusiformibus, rectis, primo didymis, dein 3-septatis, ad septa constrictis, hyalinis,  $42-13 \approx 3,5-1$ , anulo hyalino cinctis. 2053

*Hab.* in ramis emortuis Pini silvestris, Collecchio, Parma Ital. bor. — A *Massarina microcarpa* ascorum et sporidiorum parvitate peritheciisque minime pilosis videtur distinguenda.

3. **Massarina Mamma** (Oth) Sacc. *Massaria* Jaczews. Bull. Herb. Boiss. 2054  
II, p. 672.

*Hab.* in ramis Lonicæræ nigræ pr. Berne Helvetiæ (OTTH). — Perithecia papillata, subcutanea, prominula; asci cylindracei; sporidia  $17 \approx 6$ , constricto-3-septata, hyalina.

4. **Massarina Alni** (Oth) Sacc. *Epiphegia Alni* Oth Mittheil. Bern. 2055  
1870, p. 104, *Massaria* Jacz. Bull. Herb. Boiss. II, p. 671.

— *Hab.* in ramis Alni pr. Berne Helvetiæ (OTTH). — Perithecia subcæspitosa; asci tereti-clavati,  $90 \approx 10$ ; sporidia  $20-23 \approx 5$ , constricto-3-septata, hyalina, curvula.

5. **Massarina Ligustri** (Oth) Sacc. *Cladosphæria* Oth in Mittheil. 2056  
Bern. 1870, p. 105. *Massaria* Jacz. Bull. Herb. Boiss. II, p. 672.

*Hab.* in ramis Ligustri communis pr. Berne Helvetiæ (OTTH). — Perithecia conferta; asci  $80 \approx 18$ ; sporidia  $18-22 \approx 4,5-6$ ,

Pyrenomycetæ, Sphæriacæ, Hyalophragmiæ, Metasphæria 333  
constricto-3-septata, 4-guttata, hyalina. « Probabiliter forma *Metasphæria sepincolæ* ».

**METASPHÆRIA** Sacc. — Syll. II, p. 156, IX, p. 825.

I. Sporidia 2-3-septata.

1. *Metasphæria Maximiliani* E. et E. in Proceed. Acad. S. N. Philad. 2057  
1893, p. 136.

*Hab.* in caulibus emortuis Helianthi Maximiliani, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 300  $\mu$ . diam.; asci 75  $\approx$  8; sporidia constricto-bi-septata, 15-20  $\approx$  4-5, hyalina.

2. *Metasphæria gaurina* E. et E. New West-Amer. Fung. 21 in Ery- 2058  
thea Voll. II, 1894).

*Hab.* in caulibus emortuis Gauræ parvifloræ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 200-250  $\mu$ . diam.; asci 75-80  $\approx$  10; sporidia 3-septata, constricta, hyalino-flavidula, 20-24  $\approx$  4-5.

3. *Metasphæria excussa* (Schw.) Starb. Stud. p. 37, f. 20, *Sphæria* 2059  
Schw. — Syll. II, p. 417. — Perithecia 300-400  $\mu$ . diam.; asci cylindracei longissimi; sporidia 13-18  $\approx$  4,5-5, 4 guttata, spurie 3-septata. (In ramis Piri Mali).

4. *Metasphæria orthospora* Sacc. Grev. XXI, p. 66, t. 184, f. 7. — 2060  
Peritheciis gregariis, globoso-depressis, epidermide velatis, prominulis, ostiolo minuto obtuso vix erumpentibus,  $\frac{1}{3}$  mm. diam., asci cylindraceis, breve stipitatis, apice rotundatis, 130-140  $\approx$  15, octosporis; paraphysibus filiformibus copiosis; sporidiis distichis, cylindraceis, rectis, utrinque rotundatis, sed sæpius etiam brevissime et obtuse papillatis, 21  $\approx$  5, triseptatis, levissime constrictis, hyalinis.

*Hab.* in ramulis corticatis nitidis salicinis, Rigny Galliæ (FLAGEOLET). — Affinis *M. cinereæ* et *depressæ*.

5. *Metasphæria fuscata* E. et E. in Proceed. Acad. S. N. Philad. 2061  
1893, p. 137.

*Hab.* in ramis emortuis corticatis Quercus coccineæ, New-field N. J. Amer. bor. — Perithecia 300  $\mu$ . diam.; asci 75-100  $\approx$  12-15; sporidia constricto-3-septata, hyalina, 19-22  $\approx$  7-8.

6. *Metasphæria Loniceræ* Fautr. Rev. Myc. 1892, p. 173. 2032

*Hab.* in ramis vivis Loniceræ Xylostei, Côte-d'Or Galliæ, — Perithecia majuscula globoso-collabentia; asci 60-70  $\approx$  12-14; sporidia 3-septata, 25-32  $\approx$  4, hyalina, loculo secundo paullo crassiore.

7. *Metasphæria dealbata* Berl. Icon Fung. Vol. I, p. 133, tab. CXLII, 2063  
f. 3. — Peritheciis subsparsis, maculis dealbatis insidentibus,  $\frac{1}{3}$  mm. diam.; contextu molli, olivaceo; ascis 80-90  $\approx$  10; sporidiis etiam distichis sed sæpius monostichis, 16-20  $\approx$  7 3-septatis.

*Hab.* in ramis fracidis decorticatis, Sussex Britannicæ. — *M. trichostomæ* affinis sed ostiolo non setoso et sporidiis 3-septatis minoribusque; a *Zignoellæ* typo peritheciis membranaceis, tectis differt.

8. *Metasphæria clavulata* Passer. Diagn. Funghi nuovi, V, n. 16. — 2064  
Peritheciis sparsis vel laxe gregariis, primo epidermide tectis, dein nudis, superficialibus, globosis, atris; circa ostiolum brevissime ciliolatis; ascis paraphysatis tubulosis, brevissime stipitatis, 8-sporis 60-80  $\approx$  10-12; sporidiis bi-tristichis, elongato-clavulatis, apice rotundatis, basi acuminatis, 3-septatis, non vel vix constrictis, 22,5-25  $\approx$  2,5-3, hyalinis.

*Hab.* in culmo fracido Scirpi Holoschœni, Vigheffio, Parma Ital. bor.

9. *Metasphæria sphenispora* E. et E. in Proceed. Acad. S. N. Philad. 2065  
1893, p. 136.

*Hab.* in culmis emortuis Erianthi alopecuroidis, Delaware Amer. bor. (COMMONS). — Perithecia 0,5 mm. diam.; asci 60-66  $\approx$  10-12; sporidia 3-septata, hyalina, 12-16  $\approx$  3,5.

10. *Metasphæria infuscans* E. et E. North Am. Pyr. p. 388. 2066

*Hab.* in vagina interiore Andropogonis virginici, Alabama Amer. bor. (ATKINSON). — Perithecia 250  $\mu$ . diam.; asci 70-80  $\approx$  10-12; sporidia 3-septata, hyalino-flavida, 15-20  $\approx$  3,5-4.

11. *Metasphæria nuda* Peck 44 Rep. p. 29. 2067

*Hab.* in culmis Panici miliacei, Menands Amer. bor. — Perithecia ovato-conica, nigra, contextu sub microscopio cyaneo; asci 75  $\approx$  12; sporidia 3-septata, hyalina 17-20  $\approx$  6. — « An potius *Gibberella?* ».

## II. Sporidia 4-pluriseptata.

12. *Metasphæria spurca* Passer. Diagn. Funghi nuovi, V, n. 15. — 2038  
Peritheciis gregariis, ovalibus, epidermide infusca semper tectis, ostioli imperspicuis; ascis clavatis, paraphysibus tenuibus superantibus stipatis, 8-sporis, 65-95  $\approx$  12,5; sporidiis distichis vel oblique monostichis, fusiformibus, inferne acutis, apice rotundatis, curvulis, 4-septatis, hyalinis, ad septa leniter constrictis, 20-22,5  $\approx$  5.

*Hab.* in caulibus siccis Umbelliferæ, forte Dauci Carotæ, San Ruffino, Parma Ital. bor.

13. *Metasphæria rubida* (Blox.) Cooke Grev. XX, pag. 83, *Sphæria* 2069  
*rubida* Bloxam in Herb. Berk. — Caulicola; peritheciis parvulis, globosis, nigris, ostiolo papillato, subcutaneo-erumpentibus, matricem sanguineo maculantibus; ascis clavatis; sporidiis fusoidis, rectis curvulisve, 3-5-septatis, constrictis, hyalinis, 25  $\approx$  3.

*Hab.* in caulibus herbarum Twycross Britanniae (BLOXAM).

14. *Metasphæria Pseudacaciæ* Schröt. Pilze Schles. II, p. 354. 2070

*Hab.* in petiolis vetustis Robiniæ Pseudo-Acaciæ, in Silesia. — Perithecia 0,3 mm. diam.; asci 100-110  $\approx$  12-14; sporidia 3-4-septata, 32-35  $\approx$  6, hyalina.

15. *Metasphæria lineolata* Fautr. et Roum. Rev. Myc. 1892, p. 108. 2071

*Hab.* in ramis Rosæ caninæ, Côte-d'Or Galliæ. — Perithecia gregaria, tecta, nigra, lineata; asci 60-75  $\approx$  15-20, sessilia, rotundata; sporidia tereti-clavulata, 30  $\approx$  8-10, 5-septata, medio constricta, hyalina. « An *Sphærulinæ* species? ».

16. *Metasphæria microëcia* E. et E. in Proceed. Acad. S. N. Philad. 1893, p. 137. 2072

*Hab.* in ramis emortuis Aceris spicati, Canada (DEARNESS). — Perithecia 100-250  $\mu$ . diam.; asci 70-85  $\approx$  18-27; sporidia 5-6-nucleata, constricta, hyalina, 40-45  $\approx$  7-10.

17. *Metasphæria Ilicis* E. et E. New Californ. Fung. in Erythea 1893, p. 145. 2073

*Hab.* in foliis subvivis Ilicis Aquifolii, California (BLASDALE). — Perithecia 300  $\mu$ . diam.; asci oblongi, subsessiles; sporidia 4-septata, ad secundum septum constricta, 15-27  $\approx$  6-7.

18. *Metasphæria dispar* Penz. et Sacc. in Penz. Stud. bot. Agrum. p. 335, tav. XXVII, fig. 6. — Peritheciis dense gregariis, subcutaneo-erumpentibus, sphæroideis, erostratis, aterrimis, 130-150  $\mu$ . diam.; ascis cylindræo-clavatis, crasse stipitatis, apice truncatis, 70-85  $\approx$  10-16, paraphysatis; sporidiis distichis, fusoidis, utrinque rotundatis, inæqualiter 4-septatis, medio subconstrictis, hyalinulis, 22-24  $\approx$  7-7,5, loculo submedio paullo crassiore. 2074

*Hab.* in ramulis emortuis Citri Limonum in M. Argentario Etruriæ.

19. *Metasphæria obtusata* (Schw.) Cooke Grev. XX, p. 87, *Sphæria* 2075  
*obtusata* Schw. — Syll. II, p. 430. — Asci clavati, stipitatis; sporidia lanceolata 5-7-septata, 50  $\approx$  7, hyalina.

20. *Metasphæria pusilla* Cooke Grev. XX, pag. 91. — Hypophylla, 2076

gregaria; peritheciis minutis, innatis, plagas latas efformantibus, ostiolo papillatō; ascis clavatis; sporidiis fusiformibus, primitus uni-septatis, nucleatis, demum leniter quinqueseptatis, hyalinis,  $40 \approx 8$ .

*Hab.* in foliis coriaceis Brasilie (GLAZIOU).

21. **Metasphæria Cumana** Sacc. et Speg. — Syll. II, p. 177. — var. 2077  
**macrospora** Fautr. Rev. Myc. 1891, p. 128.

*Hab.* in foliis Caricis ripariæ, Canal de Bourgogne Gallie.  
— Perithecia ovoidea, innata, ostiolo vix emergenti; ascis clavati; sporidia  $36-42 \approx 6-8$ , 3- raro 5-septata, constricta, hyalina.

**CERIOSPORA** Niessl — Syll. II, p. 184, IX, p. 845.

1. **Ceriospora alabamensis** E. et E. North Am. Pyr. p. 391, 2078

*Hab.* in caulibus herbaceis emortuis, Alabama (ATKINSON). — Perithecia 0,3-0,5 mm. diam.; ascis 90-100  $\approx 6-8$ ; sporidia demum 1-septata, hyalino-flavida, 12-15  $\approx 4-5$ , appendice 10-15  $\mu$ . long., utrinque aucta. « Si sporidia jugiter 1-septata, vix *Ceriospora* ».

**SPHÆRULINA** Sacc. — Syll. II, p. 186, IX, p. 846.

1. **Sphærulina Scirpi** Pass. in litt. ad Brun. Glan. mycol. ser. 2, Her- 2070  
bor. 1892, p. 5. — Peritheciis minutis, approximatis, brunneis, membranaceis; ascis globulosis 10-12  $\mu$ . diam. v. obovoideo-piriformibus; sporidiis subdistichis, cylindraceis, rectis, 3-septatis, hyalinis,  $8 \approx 2-3$ .

*Hab.* ad culmos emortuos Scirpi lacustris, Saintes in Gallia.

**SACCARDOELLA** Speg. — Syll. II, p. 191.

1. **Saccardoella canadensis** E. et Ev. North Am. Pyr. p. 392. 2080

*Hab.* in cortice Cratægi, London Canada (DEARNES). — Perithecia ovata 0,7  $\mu$ . long., 0,5  $\mu$ . lat.; ascis 200-280  $\approx 10$ ; sporidia 15-septata, hyalina, 40-60  $\approx 8-9$ , utrinque setigera.

**HYPOSPILA** Fr. — Syll. II, p. 189, IX, p. 849.

1. **Hypospila Brunellæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 338. 2081

*Hab.* in foliis Brunellæ vulgaris, Washington Amer. bor. (PIPER). — Perithecia 0,5 mm. diam.; ascis 90-110  $\approx 12$ ; sporidia 1-3-septata, 55-62  $\approx 3,5-4$ , hyalina.

**LASIOSPHÆRIA** Ces. et De Not. — Syll. II, p. 191, IX, p. 849.

1. **Lasiosphæria Hystrix** Ell. et Ev. Proc. Acad. 1894, p. 326. 2082

*Hab.* in ramis emortuis Salicis, Ohio Amer. bor. (MORGAN).

- Pyrenomycetæ, Sphæriaceæ, Hyalophragmiæ, Acanthostigma. 337
- Perithecia 0,3–0,5 mm. diam., longe pilosa; asci 120–160  $\approx$  20; sporidia 45–65  $\approx$  8–10, 7–15-septata, hyalina. — Teste Starb. Stud. p. 38 ad *Lasiosphæriam Rhacodium* spectat *Sphæria atro-fusca* Fries Summa p. 3; ad *Lasiosphæriam hirsutam*, *Sphæria uliginosa* Fr., et ad *Lasiosphæriam acinosam*, *Sphæria selosa* Schw.
2. *Lasiosphæria newfieldiana* E. et E. N. Am. Pyr. p. 150. 2083  
*Hab.* in lignis putridis, Newfield Amer. bor. — Perithecia 0,7–1 mm. diam., brunneo-pilosa; asci 150–200  $\approx$  8; sporidia initio 35  $\times$  4 utrinque corniculata, demum sursum inflata brunnea, ibique 5–7  $\mu$ . crass.
3. *Lasiosphæria dichroospora* E. et E. New West Amer. Fung in 2084  
*Erythea* 1893, p. 197.  
*Hab.* ad terram argillaceam, in silvis pr. Washington Amer. bor. (PIPER). — Perithecia parce brunneo-pilosa; asci 150  $\approx$  8–10; sporidia cylindracea, 40  $\approx$  4, supra fuliginea infra hyalina, utrinque acuta.
4. *Lasiosphæria trichopus* E. et E. in Proceed. Acad. S. N. Philad. 2085  
 1893, p. 129.  
*Hab.* in ligno putri Canada (DEARNESS). — Perithecia 150  $\mu$ . diam., hyphis 35–60  $\approx$  3 cincta; asci 75–80  $\approx$  12–15; sporidia 25–40  $\approx$  6–7, curvula obsolete 7–9-septata, flavida.
5. *Lasiosphæria striata* E. et E. New Sp. Fung, Proceed. Acad. N. 2086  
 S. Philad. 443.  
*Hab.* in ramis emortuis salicinis, Canada (DEARNESS). — Perithecia 0,7–1 mm. diam.; asci 100–110  $\approx$  7–8; sporidia 40–60  $\approx$  2, 5–3, 3–5-septata hyalina.
6. *Lasiosphæria palustris* Schröt. Pilze Schles. II, pag. 304 (*Leplo-* 2087  
*spora*).  
*Hab.* ad terram inter Algas gelatinosas, in Silesia. — Perithecia 0,6 mm. diam. calva; asci 220–260  $\approx$  16–20; sporidia 60–70  $\approx$  8–10, continua, hyalina.
7. *Lasiosphæria decipiens* Pass. F. Abiss. p. 189, t. V, f. 13, (*Le-* 2088  
*plospora*).  
*Hab.* in fragmento ligneo, Keren Colonie Erythrææ. — Perithecia globosa collabentia; asci clavati; sporidia 13–14  $\times$  1,5, subtrinuclæata, in aseis flavido-fusca, extra hyalina. « An potius *Cælosphærie* spec.? ».

1. *Acanthostigma parasiticum* E. et E. New Fung. in Proceed. Acad. 2089  
N. S. Philad. 1893, p. 443.

*Hab.* parasitice in *Diatrype Stigmata*, Newfield N. J. Amer. bor. — Perithecia 100-112  $\mu$ . alt., setulosa setulis obtusis 50-75  $\times$  5; asci 55-70  $\approx$  12-15; sporidia 6-12-septata, hyalino-flavida, 40-50  $\times$  4-5.

2. *Acanthostigma Fraxini* Ell. Descrip. new spec. Fung. in Journ. of Mycol. 1893, p. 276.

*Hab.* in foliis subviviis *Fraxini americanæ* pr. Washington Amer. bor. (WALTER). — Perithecia 150  $\mu$ . diam., setulis 30-40  $\approx$  4 conspersa; asci 35  $\approx$  15; sporidia 3-4-septata, 25-30  $\approx$  4-5, constricta, hyalino-flavidula.

3. *Acanthostigma Alni* Rostr. Till. Grönl. Svamp. p. 619.

2091

*Hab.* in ramis decorticatæ *Alni ovatæ*, in Grœlandia. — Perithecia 100  $\mu$ . diam. setulis rigidulis vestita; asci 45-50  $\approx$  9-10; sporidia 3-septata, hyalina, 11-13  $\times$  5.

**BOMBARDIASTRUM** Pat. Bull. Soc. Myc. 1893, p. 153 (Etym. a *Bombardia* cui accedit). — Perithecia superficialia, sparsa v. gregaria, ovoidea, stipitata, carbonacea, pulvere læte colorato obducta. Asci 8-spori, paraphysati; sporidia hyalina, elongato-fusiformia, multi-septata.

1. *Bombardiastrum andinum* Pat. Bull. Soc. Myc. 1893, p. 153.

2092

*Hab.* in ramulis putridis dejectis, Pulahua Æquatoris. — Perithecia 600  $\mu$ . alt., 300  $\mu$ . cr.; asci 200  $\times$  20; sporidia 75-90  $\approx$  8-10, multiseptata, hyalina.

**HERPOTRICHIA** Fuck. — Syll. II, p. 211, IX, p. 856.

1. *Herpotrichia cerealium* Delacr. Bull. Soc. Myc. 1891, pag. 104, 2093  
t. VII, f. 6.

*Hab.* in culmo *Secalis* et *Tritici* putrescenti, Parisiis. — Perithecia 320  $\mu$ . diam., flexuoso-pilosa; asci fusoides; sporidia constricto-5-7-septata, hyalino-luteola, 37  $\times$  6, subinde utrinque apiculata.

2. *Herpotrichia tonkiniana* Pat. Bull. Soc. Myc. 1892, p. 51, t. VII, 2094  
fig. I.

*Hab.* in fragmentis ligneis putridis, Tonkin (BON). — Perithecia 1 mm. diam., villosa, apice glabra, rubra; asci 170  $\approx$  12-15; sporidia constricto-3-septata, luteola, 42-45  $\approx$  7-8.

3. *Herpotrichia incisa* E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 130,



*Hab.* in radicibus emortuis *Aceris spicati*, Canada (DEARNESS). — *Perithecia* 300-400  $\mu$ . diam., initio pilosula; asci 150-200  $\approx$  12-15; sporidia 1-septata subhyalina, 35-45  $\approx$  7-8, leviter constricta.

4. *Herpotrichia nicaraguensis* Ell. et Ev. Bull. Univ. Jowa 1893, 2096 p. 400.

*Hab.* in lignis putridis, Ometepe Amer. centr. (SMITH). — *Perithecia* 0,5-0,7 mm. lat., pruinoso-pilosa; asci jam resorpti; sporidia 1-septata, hyalina, dein olivaceo-brunnea 8-10  $\approx$  5. — « *An Neopecthia?* ».

**ZIGNOELLA** Sacc. — Syll. II, p. 214, IX, p. 860.

1. *Zignoella Hederæ* Lamb. et Fautr. Rev. mycol. 1894, p. 117. 2097

*Hab.* in ligno *Hederæ* emortuo, Côte-d'Or Galliæ. — *Perithecia* aggregata, superficialia; asci 8-spori; sporidia 5-septata, medio constricta, hyalina, 20-23  $\approx$  4.

2. *Zignoella nyssogena* E. et E. New sp. North Amer. Fung. in Pro. 2098  
ceed. Acad. S. N. Philad. 1893, p. 137.

*Hab.* in cortice subvivo *Nyssæ multifloræ*, Newfield N. J. Amer. bor. — *Perithecia* 150  $\mu$ . diam.; asci 35-60  $\approx$  10-12; sporidia 1-3-septata, flavido-hyalina, 13-15  $\approx$  4-5.

3. *Zignoella ligustrina* Passer. Diagn. Fung. nuov. V, n. 18. — *Pe-* 2099  
*ritheciis* plus minus dense gregariis, cortici immersis, ostiolo punctiformi nigro, epidermidem perforantibus, basi ligno adnatis, cortice elapso nudatis, subglobosis, rugosulis, atris; ascis tubulosis, basi longe attenuatis, paraphysibus longioribus cinctis, 65-85  $\approx$  5-6; sporidiis octonis, distichis vel oblique monostichis, fus formibus; utrinque acuminatis, primo medio septatis, dein 3-septatis, rectis vel leniter curvis, hyalinis, 22,5  $\approx$  2,5-3.

*Hab.* in ramis siccis *Ligustri vulgaris*, socia *Ostropa cinerea*, Collecchio, Parma Ital. bor.

4. *Zignoella fusispora* Wegelin Beitr. Pyr. Schw. p. 4, t. II, f. 14- 2100  
15 (*Trematosphæria*).

*Hab.* in asseribus pineis in humidis, Emmenthal Helvetiæ. — *Perithecia* 0,3-0,5 mm. diam.; asci cylindrici; sporidia triseptata, hyalina, 35-45  $\approx$  4-5.

5. *Zignoella Büttneri* Rehm Verh. bot. Var. Brand. XXXI, p. 65. 2101

*Hab.* in corticibus arborum pr. Gabun Africæ. — *Perithecia* 0,4-0,7 mm. diam.; asci 75-90  $\approx$  18; sporidia 3-septata, hyalina, 15-17  $\approx$  7-8. E sect. *Trematostoma*.

6. **Zignoella boreella** Karst. Hedw. 1891, p. 247. — Peritheciis c. 2102  
 spitosis vel arcte gregariis, superficialibus, rotundatis vel diffor-  
 mibus, solito depressis et rugulosis, atris, glabris, vix pertusis minu-  
 tis; ascis cylindraceis, 50-60  $\approx$  6; sporidiis octonis, oblique mono-  
 stichis, fusoides-oblongatis, rectis, 3-septatis, ad septa non constri-  
 ctis, hyalinis, 10-12  $\approx$  3-5; paraphysibus coalitis.

*Hab.* supra discum Valsæ boreellæ ad sinum Kolaensem Fenniae.

7. **Zignoella culmicola** Delacr. Bull. Soc. Myc. 1891, p. 106, t. VII, f. c. 2103

*Hab.* in culmo exsiccato Graminaceæ cujusdam, Rouen Gal-  
 liæ. — Perithecia 150  $\mu$ . lat. atro-violacea; asci 70  $\approx$  13; sporidia  
 3-septata, utrinque attenuata, hyalina. « Verisimiliter *Gibbrella* ».  
 Adest simul *Periconia* species hyphis 480  $\approx$  9, conidiis levibus, 5  
 $\mu$ . diam. atris.

8. **Zignoella fallaciosa** Rehm Hedw. 1891, p. 257. 2104

*Hab.* ad ramos decorticatos Salicis, Fagi, Corni, Fraxini  
 in Helvetia. — Perithecia 0,2-0,3 mm. diam.; asci 100-120  $\approx$  21-  
 24; sporidia 21-25  $\approx$  8-10, hyalina, 1-septata.

9. **Zignoella erumpens** Cooke Grev. XX, p. 36. — Sparsa v. aggregata, 2105  
 erumpenti-superficialis; peritheciis globoso-papillatis, nigris,  
 levibus 0,3 mm. diam.; ascis tereti-clavatis, 8-sporis; sporidiis fu-  
 soideo-ellipsoideis, constricto-1-septatis, binucleatis, hyalinis 15-  
 16  $\approx$  4,5.

*Hab.* in ramis emortuis, Victoria Australiæ (MARTIN).

# **WINTERIA** Rehm — Syll. II, p. 225, IX, p. 870.

1. **Winteria Zahlbruckneri** Bäuml. Zur Pilzfl. Niederöst. VI, p. 94. 2106

*Hab.* in radicibus pineis denudatis, in Austria inferiore. — Pe-  
 rithecia brunneo-cyanea, conica, 0,3 mm. diam.; asci 80-90  $\approx$  14-  
 16; sporidia 3-septata, subhyalina, 20-24  $\approx$  8-10.

2. **Winteria culmigena** Karst. et Malbr. in Le Bret. et Niel Champ. 2107  
 Norm. Liste p. 154.

*Hab.* in culmis siccis, Rouen Galliæ. — Perithecia aggregata  
 globoso-conoidea, contextu cœruleo; asci 65  $\approx$  11; sporidia 3-se-  
 ptata, hyalina, 24  $\approx$  6. — « Verisimiliter *Gibberella* ».

# **CERATOSPHERIA** Niessl — Syll. II, p. 227.

1. **Ceratosphæria castillensis** C. L. Smith Bull. Univ. Iowa 1893, 2108  
 p. 403.

*Hab.* in corticibus, Castillo viejo Amer. centr. (SMITH). — Pe-

- Pyrenomycetæ, Sphæriacæ, Phæodictyæ, Pleomassaria. 341
- riethecia 0,5 mm. diam., piloso-tomentella, ostiolo 0,5-0,7 mm. long.; asci 75-85  $\approx$  8-10; sporidia 3-septata, hyalina, 25-28  $\approx$  3,5.
2. **Ceratosphæria microspora** Pat. Bull. Soc. myc. 1892, p. 131. 2109
- Hab.* in ramulis putrescentibus, Quito Æquatoriæ. — Perithecia 0,5 mm. lat., immersa, ostiolo 0,5-2 mm. long.; asci 30-40  $\approx$  8-10; sporidia 1-3-septata, hyalina, 10  $\approx$  2-3.

**CALOSPORA** Sacc. — Syll. II, p. 231, IX, p. 871.

1. **Calospora Platanoidis** (Pers.) Niessl — Syll. II, p. 231. — var. 2110
- Sorbi** Destrée et Roll. in Rev. mycol. 1894, p. 160.

*Hab.* in cortice Sorbi Ariæ, Scheveningue Hollandiæ (Destrée). — Asci 90  $\approx$  20; sporidia 3-septata, hyalina, sæpe appendiculata, 20-25  $\approx$  4-6.

2. **Calospora Vanillæ** Massee Gard. Chron. 1891, p. 160, Zeitschr. f. 2111
- Pflanzenkr. 1892, p. 362.

*Hab.* in foliis Vanillæ planifoliæ, cui valde noxia, in insulis Seychelles, Reunion et Mauritius. — Perithecia in collum attenuata; asci 90-100  $\approx$  12-14, paraphysati 8-spori; sporidia 15-16  $\approx$  5, 3-septata, hyalina. Simul adsunt st. conidiophorus (*Hainesia*) et spermogonicus (*Cytospora*).

**SYDOWIA** Bresad. in Hedw. 1895 pag. (66). (Etym. a cl. botanico P. Sydow). — Perithecia caespitosa, rarius subsolitaria, membranaceo-coriacea, atra, subglobosa vel obovata, epapillata, apice pertusa, subiculo dematiaceo insidentia. Asci cylindraceo-subclavati, polyspori, paraphysati. Sporidia clavato-subfusioidea, hyalina, 3-septata.

1. **Sydowia gregaria** Bres. l. c. 2112

*Hab.* in ramis corticatis Abietis excelsæ, Steglitz pr. Berlinum (P. Sydow). — Perithecia 300-500  $\mu$ . diam., atra, subrotunda; asci 130-150  $\approx$  14-20; sporidia 20-26 in quoque asco, clavato-fusioidea, 15-20  $\approx$  6, hyalina, 3-septata.

## Sect. 8 Phæodictyæ

**PLEOMASSARIA** Speg. — Syll. II p. 239, IX p. 872.

1. **Pleomassaria allospora** (Othth) Jaczews. Bull. Herb. Boiss. II. p. 2113
- 687, *Cladosphæria* Othth in Mittheil. Bern. 1870, p. 109.

*Hab.* in ramis Fraxini pr. Berne Helvetiæ (Othth). — Perithecia cortice innata, ostiolo papillato prominulo; asci 175  $\approx$  12-13;

sporidia 20-23  $\approx$  11-12, brunnea, 3-septato-muriformia, mucro hyalino verruculoso obducta, septis longit. 1-seriatis.

2. **Pleomassaria Ammophilæ** Oud. Contrib. Fl. myc. Pays-Bas XV 2114 p. 10, et Hedw. 1894, p. 17. — Peritheciis ætate obsoletis; asci 8-sporis, paraphysibus numerosis; sporidiis halone hyalino cinctis, 7-septato-muriformibus, brunneis, medio constrictis, 18-23  $\approx$  9-12.

*Hab.* ad culmos *Ammophilæ* in dunis Hollandiæ (DESTRÉE).

3. **Pleomassaria Rosæ** Oud. Contr. Myc. Pays-bas XIV, p. 35. 2115

*Hab.* in ramis *Rosæ* in dunis Hollandiæ (DESTRÉE). — Perithecia atra, sat crassa; asci 130  $\approx$  28, 4-8-spori; sporidia 7-septato-muriformia, mellea, 35  $\approx$  10, strato mucoso hyalino obducta. Teste Berl. Icon. Fung. II p. 3, species hæc non distinguitur a *Pleosporæ herbarum* typo.

**KARSTENULA** Speg. — Syll. II, p. 340, IX, p. 873.

1. **Karstenula carpinicola** (E. et E.) Berl. Icon. fung. II, p. 4, t. IV.<sup>bis</sup> 2116 fig. 1. *Pleospora carpinicola* E. et E. in Proceed. Acad. S. N. Philad. 1893, p. 135.

*Hab.* in ramis emortuis *Carpini americanæ*, Canada (DEARNESS). — Perith. depresso-globosa 0,3 mm. diam.; asci 100-110  $\approx$  8-9 (150-160  $\approx$  12-14, sec. Berl.); sporidia triseptata, parce muriformia, 14-16  $\approx$  7-8 (20-24  $\approx$  8-10, sec. Berl.) pallide flava.

**PLEOSPORA** Rab. — Syll. II, p. 241, IX, p. 873.

*A. Eu-Pleospora* Sacc.

1. Sporidia 3-5-septata.

1. **Pleospora richtophensis** Ell. et Ev. Proc. Acad. Phil. 1894, 2117 p. 335.

*Hab.* in caulibus emortuis *Helianthi*, Colorado Amer. bor. (BAKER). — Perith. 300-400  $\mu$ . diam.; asci 85-110  $\approx$  20-22; sporidia 5-septato-muriformia, flavo-brunnea, 25-35  $\approx$  12-14. — *Sphaeria Naudini* Roum. F. Gall. 4, 1282 (in *Bauhinia*) est forma *Pleosporæ herbarum*.

2. **Pleospora verbenicola** Passer. Diagn. funghi nuovi V, n. 19. — 2118 Peritheciis in matrice non mutata sparsis vel subgregariis, minutis, subglobosis, basi non fibrillosis ostiolo punctiformi erumpente; ascis tubuloso-clavatis, apapophysatis, breviter noduloso-stipitatis, 52-60  $\approx$  10, 8-sporis; sporidiis distichis, elongato-ellipticis, 5-septatis, raro

3-4-septatis, ad septa non vel vix constrictis flavis 10-12 = 5, loculo uno alterove septulo longitudinali divisus, nullo inflato.

*Hab.* in caulibus siccis *Verbenæ officinalis*, socia *Rhabdospora verbenicola* (probabili spermogonio), Vigheffio, Parma Ital. bor. *Pleosporæ oblongatæ* Niessl. affinis, sed peritheciis non fibrillosis, ascis brevioribus sporidiisque minoribus et spermogonii consortio videtur distinguenda.

3. *Pleospora parvula* Berl. Icon. Fung. II, p. 5, t. V, fig. 1. 2119

*Hab.* in ramulis *Berberidis vulgaris*, Montpellier Galliæ. — Perithecia globosa-conoidea 0,3 mm. diam.; asci cylindracei 60-70 = 10; sporidia 12-15 = 6, 3-septata parceque muriformia, mellea.

4. *Pleospora microsperma* Sacc. Fungi Abyss. pag. 5, tab. XX, fig. 6. 2120  
— Peritheciis sparsis subcutaneis, vix erumpentibus, nigris, glabris, globoso-depressis, brevissime papillatis,  $\frac{1}{4}$  mm. diam.; ascis teretibus clavatis apice rotundatis, brevissime stipitatis, 75-80 = 9-10, octosporis; sporidiis subdistichis oblongo-clavatis, utrinque obtuse acutatis, rectis, 15-18 = 5,5-6,5, quinqueseptatis, septis longitudinalibus 2-3 divisus, ad septum medium constrictis, olivaceo-fuliginosis; paraphysibus filiformibus.

*Hab.* in ramulis corticatis arboris ignotæ, M. Dongolla pr. Ghinda Erythrææ. — Sporidiis superne crassioribus a *P. oblongata*, ascis sporidiisque minoribus a *P. infectoria* dignoscenda species.

5. *Pleospora hysterioides* E. et E. New West-Amer. Fung. pag. 19 2121  
in *Erythea* Vol. II, 1894.

*Hab.* in culmis emortuis *Andropogonis nutantis* et *Sporoboli asperi*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 150  $\mu$ . diam. v. 200-300 = 150; asci 60-75 = 12-18; sporidia 3-septato muriformia, 15-20 = 8-10, e latere 6-8  $\mu$ . crass., straminea.

6. *Pleospora alpestris* Ell. et Ev. Proc. Acad. Phil. 1894 p. 336. 2122

*Hab.* in caulibus emortuis *Trollii laxi*, Colorado Amer. bor. (CRANDALL). — Perith. 250  $\mu$ . diam.; asci 150 = 25-30 sæpius bispori; sporidia 50-65 = 16-24, flavo-brunnea, 9-12-septato-muriformia.

## II. Sporidia 7-pluriseptata

7. *Pleospora Robertiana* Boy. et Jacz. Mat. myc. Montpell. p. 26, 2123  
fig. 2.

*Hab.* in ramulis siccis *Genistæ Scorpii*, Montarnaud pr. Montpellier. — Perithecia globulosa, hyphis basi cincta, ostiolo setuloso. « An ergo *Pyrenophora*? » Asci 100-125 = 27-30; sporidia 7-8-septato-muriformia, 35 = 14, lutea, (Dicata ROBERTO CHODAT).

344 Pyrenomycetæ, Sphæriaceæ, Phæodictyæ, Phæopeltosphæria.

8. *Pleospora diplospora* E. et E. New West-Amér. Fung. p. 20 in 2124  
*Erythea* Vol. II, 1894.

*Hab.* in caulibus emortuis *Asclepiadis incarnatæ*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 150–220  $\mu$ . diam.; asci 70–80  $\approx$  25–35; sporidia 3-septata demum 5–7-septato-muriformia, 24–30  $\approx$  10–15 e latere 7–8  $\mu$ . crassa, straminea dein brunnea.

9. *Pleospora decipiens* E. et E. in Proceed. Acad. S. N. Philad. 1893, 2125 p. 135.

*Hab.* in ligno decorticato et dealbato *Azaleæ*, Newfield N. J. Amer. bor. — Perith. 0,7  $\mu$ . diam. collabentia; asci 55–65  $\approx$  15–20; sporidia 5–7-septato-muriformia, dilutissime flavida, 35–40  $\approx$  10–12.

10. *Pleospora occultata* Oudem. Contrib. Fl. myc. Pays-Bas XV, p. 10. 2126  
— Peritheciis immersis, depressis, coriaceis, atris; ascis breviter pedunculatis 8-sporis 125  $\approx$  14; paraphysibus latis, curvulis; sporidiis flavidis, ellipticis, 7-septatis, septo longitudinali, 35  $\approx$  4.

*Hab.* ad folia *Elymi arenarii*, in Hollandia.

11. *Pleospora Magnusiana* Berl. Icon. fung. II, p. 15, XI<sup>X</sup>, fig. 2. 2127  
*Pl. pentamera* Berl. Monogr. p. 77, nec Karst.

*Hab.* in culmis et foliis *Glyceriæ Vahlianæ* in Gotlandia (MAGNUS). — Perithecia globoso-conoidea; asci 110–120  $\approx$  28–32; sporidia 30–33  $\approx$  12–15, fuliginea, 6-septato-muriformia, inæquilatera.

#### B. *Scleroplea* Sacc.

12. *Pleospora Trochila* (Fr.) Sacc. *Pyrenophora Trochila* (Fr.) Starb. 2128  
Stud. p. 39, f. 22, *Sphæria* Fr. herb.

*Hab.* in ramis, Kamtschatka. — Perithecia sclerotioideo-coriacea, glabrâ, dein patellata; asci 180–200  $\approx$  23–30; sporidia 6–7-septato-muriformia, olivaceo-fusca, 30–36  $\approx$  10–12.

**PYRENOPHORA** Fr. — Syll. II, p. 277. IX p. 895.

1. *Pyrenophora canadensis* Ell. et. Ev. Proc. Acad. Phil. 1894, 2129 p. 336.

*Hab.* in vaginis *Phlei pratensis*, Canada (DEARNESS). — Perith. 250–300  $\mu$ . diam. setulis 50–80  $\approx$  5–6 apice vestita; asci 150–190  $\approx$  28–32; sporidia 3-septata parçèque muriformia, 40–55  $\approx$  15–20, subhyalina. Si sporidia vere et diu hyalina sint, non genuina *Pyrenophora*.

**PHÆOPELTOSPHÆRIA** Berl. Micr. Tosc. in N. G. B. it. 1892, p. 139,  
(Ety. *phæos* obscurus et *Peltosphæria*). Perithecia innata, clypeo

stromatico nigro tecta; asci octospori; sporidia fusioidea, pluri-septata, parce muriformia, olivacea v. fusca.

1. *Phæopeltosphæria caudata* Berl. l. c. t. VIII, f. 2.

2130

*Hab.* in ramulis corticatis plantæ ejusdam, Vicopelago Etruriæ (BECCARI). — Perithecia 0,3 mm. diam.; asci 165-175  $\approx$  14; sporidia fusioidea, basi subcaudata, 38-45  $\approx$  8-10, melleo-fuscidula, 5-7-septata, loculo uno alterove long. diviso.

**TEICHOSPORÆ** Fuck. — Syll. II, p. 291. IX p. 899.

1. *Teichospora fulgurata* E. et E. New west-Amer. Fung. 18 (Erythea Vol. II, 1894).

2131

*Hab.* in ligno aeri diu exposito Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW). Perithecia 250  $\mu$ ; asci 70  $\approx$  7-8 (p. sp.); sporidia 3-septata parceque muriformia, 12-16  $\approx$  5-6, brunnea.

2. *Teichospora nubilosa* Ell. et Ev. Proc. Acad. Phil. 1894, p. 332.

2132

*Hab.* in cortice Celtidis occidentalis, Kansas Amer. bor. (BARTHOLOMEW). Perithecia 250  $\approx$  220; asci 70-75  $\approx$  10-12; sporidia constricto-3-septata, submuriformia, brunnea.

3. *Teichospora crossota* Ell. et Ever. Proc. Acad. Phil. 1894 p. 331.

2133

*Hab.* in cortice Ulmi, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 150  $\approx$  200  $\mu$ . diam.; asci 75  $\approx$  10-12; sporidia 3-septata, subconstricta, flavo-brunnea, 12-15  $\approx$  8-9.

4. *Teichospora aspera* E. et E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 131.

2134

*Hab.* in ligno aeri diu exposito Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW). — Perith. 0,5 mm. diam. tuberculosa; asci 75-90  $\approx$  10-12; sporidia 3-septata, parce muriformia, brunnea, 15-20  $\approx$  6-8.

5. *Teichospora insecure* Ell. North. Am. Pyr. p. 214.

2135

*Hab.* in ramis decorticatis dealbatis Salicis, Utah. Amer. bor. (H. HARKNESS). — Perith. 0,5 mm. diam.; asci 130-135  $\approx$  18; sporidia 24-26  $\approx$  8-10, brunnea, 3-septato-muriformia.

6. *Teichospora ohioensis* Ell. et Ev. Proc. Acad. Philad. 1894, p. 329.

2136

*Hab.* in ligno indurato, Ohio Amer. bor. (MORGAN). — Perithecia conferta 300-400  $\mu$ . diam.; asci 55-62  $\approx$  7-8; sporidia 1-3-septato-muriformia, flavido-hyalina, 10-12  $\approx$  6-8. — An *Teichosporella*?

7. *Teichospora nucis* E. et E. New Fung. Proceed. Acad. N. Sc. Philad. 1893, pag. 446.

2137

*Hab.* in nucibus vetustis dejectis Caryæ, Newfield N. J.



Amer. bor. — Perithecia 125-150 × 100-110; asci 70-75 × 12-15; sporidia 5-septata parceque muriformia 14-18 × 8, flavo-brunnea.

8. **Teichospora amygdaloides** Ell. et Ev. Proc. Acad. Phil. 1894, 213 p. 330.

*Hab.* in cortice Salicis amygdaloidis, Kansas Amer bor. (BARTHOLOMEW). — Perithecia 250-350  $\mu$ . diam. collabentia; asci 75-85 × 18-21; sporidia 5-septata parceque muriformia, flavo-brunnea, 20-22 × 10-13.

- 9 **Teichospora nautica** E. et E. in Proceed. Acad. S. N. Philad. 1893, 213 p. 131.

*Hab.* in ramis Populi decorticatis, Montana Amer. bor. — (FITCH). — Perithecia 0,5 mm. diam.; asci 110-110 × 12; sporidia 5-septata, parce muriformia, 18-22 × 8-11.

10. **Teichospora gregaria** E. et E. in Proceed. Acad. S. N. Philad. 2110 1893, p. 130.

*Hab.* in ramis decorticatis Fraxini, Canada (DEARNESS). — Perithecia 0,3-0,5 mm. diam.; asci 75 × 14 (p. sp.); sporidia 5-septato-muriformia, 18-22 × 10-12, flavo-brunnea.

11. **Teichospora variabilis** E. et E. in Proceed. Acad. S. N. Philad. 2141 1893, p. 131.

*Hab.* in caulibus Artemisiæ, Montana Amer. bor. (FITCH). Perithecia 0,3-0,5 mm. diam.; asci 75-80 × 20-22; sporidia 5-7-septato-muriformia, 20-25 × 12, flavo-aurea.

12. **Teichospora nigro-brunnea** (Schw.) Starb. Stud. pag. 41, f. 21, 2142 *Sphæria* Schw. — Syll. II, 408. — Perithecia 175-250  $\mu$ . diam.; asci 100-125 × 12-15; sporidia 19-22 × 8-10, 5-6-septato-muriformia, ex flavido olivaceo-fusca. — (In palis Robiniæ).

13. **Teichospora rhyodes** Ell. et Ev. Proceed. Acad. Phil. 1894, 2143 p. 331.

*Hab.* in trunco decorticato Rhœis, Michigan Amer. bor. (JOHNSON). — Perithecia 0,3 mm. diam.; asci 100-110 × 12; sporidia 6-7-septata parceque muriformia, flavo-brunnea, 15-18 × 7-8. Adest simul *Macrophoma rhoïna* E. et E. l. c.: sporulis 18-22 × 6-7, hyalinis.

14. **Teichospora clavispora** Ell. et Ev. Proc. Acad. Phil. 1894, p. 330. 2144

*Hab.* in cortice Negundinis aceroidis, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 250-300  $\mu$ . diam.; asci 100-120 × 14-15; sporidia 8-10-septato-muriformia, brunnea, 30-35 × 10-12.

15. **Teichospora piriospora** Ell. et Ev. Proc. Acad. Phil. 1894, p. 331. 2145

*Hab.* in cortice subvivo Fraxini viridis, Kansas Amer. bor.

- Pyrenomycetæ, Sphæriaceæ, Phæodictyæ, Pleosphæria. 347
- (BARTHOLOMEW). — Perithecia 0,7 mm. diam.; asci 100-110 × 15-18; sporidia piriformia, 6-11-septato-muriformia, flavo-brunnea, 35-45 × 12-15.
16. **Teichospora tingens** Weg. in Rehm Ascom. n. 1036 et Hedw. 2146 1891, p. 257 (*Strickeria*).  
*Hab.* in ligno decorticato fraxineo ad fluv. Emmer Helvetiæ (WEGELIN). — Perithecia matricem sanguineo tingentia, 0,4-0,6 mm. diam.; asci 150-175 × 18-24; sporidia demum 8-septato-muriformia, ex aureo fusco-nigra 25-30 × 8-10.
17. **Teichospora longispora** (Wegelin) Sacc. *Strickeria longispora* 2147 Wegelin Beitr. Pyr. Schw. p. 5, t. II, f. 21-23.  
*Hab.* in ramis decorticatis salicinis et fraxineis prope Burgdorf Helvetiæ. — Perithecia ellipsoideo-depressa, 0,3-0,6 mm. long., 0,2-0,3 mm. lat.; asci 150-190 × 14-15; sporidia 8-10-septato-muriformia, brunneo-aurea, 32-44 × 7-9,5.
18. **Teichospora tuberculata** Ell. et Ev. Proc. Acad. Phil. 1894, p. 330. 2148  
*Hab.* in ligno emortuo Liriodendri, Ohio Amer. bor. (MORGAN). — Perithecia 300 × 200, conica, rugosa; asci 110 × 20; sporidia multiseptato-muriformia, tandem brunnea, 19-22 × 11-13.
19. **Teichospora melanconioides** Rehm in P. Henn. F. Afr. p. 365 2149 (absque diagnosi).  
*Hab.* in corticibus arborum, Togo Africae (BÜTTNER).

**PLEOSPHÆRIA** Speg. — Syll. II, p. 304, IX, p. 910.

1. **Pleosphæria corticola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 332. 2150  
*Hab.* in cortice emortuo Pini rigidæ, Nuttallburg, in Virginia occid. (NUTTALL). — Perithecia 300-400 µ. diam., pilis 100-200 × 5-6, opacis vestita; asci 80-100 × 20-25; sporidia 5-7-septato-muriformia, olivaceo-brunnea.
2. **Pleosphæria patagonica** Speg. — Syll. IX, p. 911. — var. **Salicis** 2151 Roll. et Fautr. Rev. Mycol. 1894, tab. CLXI, f. 8. — Peritheciis sparsis, globulosis, 150-200 µ. diam., fragilibus, submembranaceis, atris, pilis raris brevibus 28-70 µ. septatis, atro-brunneis conspersis; ascis cylindraceo-conicis, brevistipitatis, apapophysatis, 50-60 × 12-14, octosporis; sporidiis subdistichis, fusiformi-ellipsoideis, 3-septatis, demum septo longitudinali partitis, griseo-fuligineis, 12-18 × 5-7.  
*Hab.* ad truncos Salicis, Côte-d'Or in Gallia.
3. **Pleosphæria chlorospora** E. et E. North Am. Pyr. p. 219 (*Teichospora*). 2152

*Hab.* in ramis decorticatis dejectis *Quercus*, Newfield N. J. Amer. bor. — *Perithecia* 150–200  $\mu$ . diam., setulis 50–80  $\mu$ . long., atris vestita; asci 65–75  $\approx$  15–20; sporidia 5-septata, parce muriformia, 16–20  $\approx$  8–10, olivaceo brunnea.

**CUCURBITARIA** Gray — Syll. II, p. 367, IX, p. 915.

1. *Cucurbitaria borealis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 334. 2153

*Hab.* in cortice ramorum *Salicis*, New York Amer. bor. (SHEAR). — *Perithecia* 6–12 in quoque cæspitulo, 0,3–0,5 mm. diam.; asci 90–110  $\approx$  15–16; sporidia 7-septato-muriformia, flavo-brunnea, 20–27  $\approx$  12–14.

2. *Cucurbitaria populina* (Bacc. et Av.) Rehm in Schnab. Berichte bay. bot. Gesell. 18:2, II, p. 65, *Cucurbitaria salicina* var. *populina* Bacc. et Av. Contrib. Micol. rom. p. 19, t. I, f. 13–17. 2154

*Hab.* ad corticem *Populi* nigræ in Italia et Bavaria. — A *C. salicina* differt sporidiis sex-septatis (nec octo-septatis) et septis longitudinalibus 1-seriatis (nec biseriatis).

3. *Cucurbitaria Kmetii* Baumler F. Schemnitz. III, p. 8. 2155

*Hab.* in ramis corticatis *Pruni domesticæ*, pr. Schemnitz. — *Perithecia* cæspitosa 0,5 mm. diam.; asci 130–150  $\approx$  8–10; sporidia 5–7-septato-muriformia, 16–20  $\approx$  8–10, flavo-fulva.

4. *Cucurbitaria Destreæ* Oud. Contrib. Fl. myc. Pays-Bas XV, p. 10. 2156

— *Peritheciis* cæspitosis, globulosis, glabris, atris, rugulosis, summitate pertusa depressis; ascis cylindraceutis, 8-sporis; sporidiis monostichis, elliptico-elongatis, e brunneo nigrescentibus, medio constrictis, 5–7-septatis, 50  $\approx$  11–12.

*Hab.* in ramis *Rhododendri* culti in Hollandia (DESTRÉE).

5. *Cucurbitaria Abrotani* Fautr. Rev. Mycol. 1895, pag. 70, t. 153, fig. 5. 2157

*Hab.* in ramulis siccis *Artemisiæ* Abrotani, Côte-d'Or Galliæ. — *Perithecia* depressa, nigra; asci 80–100  $\approx$  10–18; sporidia 20–22  $\times$  9–10, 5 septato-muriformia, medio constricta, flava.

**THYRIDIDIUM** Sacc. — Syll. II, p. 323, IX, p. 920.

1. *Thyrididium Betulæ* Fautr. Rev. Myc. 1891, p. 165. 2158

*Hab.* in ramis emortuis *Betulæ* albæ, Côte-d'Or Galliæ. — *Perithecia* 8–15 in quoque stromate; asci cylindraceuti; sporidia oblonga, brunnea, 5-septato-muriformia (mensuræ desiderantur).

2. *Thyrididium americanum* E. et B. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 139. 2159

*Hab.* in ramis putrescentibus *Xanthoxyli americani*, Canada (DEARNESS). — Perithecia 200-400  $\mu$ . diam.; asci 100-115  $\approx$  12-15; sporidia 3-septata, submuriformia, 14-17  $\approx$  8-9. Adsunt simul status secundarii; cfr. l. c.

3. **Thyridium Syringæ** E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 139. 2160

*Hab.* in trunco emortuo *Syringæ*, Canada (DEARNESS). — Perithecia 0,5 mm. diam.; asci 75-80  $\approx$  12; sporidia 3-4-septata parceque muriformia, flavo-brunnea, 12-15  $\approx$  5-7.

**FENESTELLA** Tul. — Syll. II, p. 325, IX, p. 922.

1. **Fenestella ulmicola** E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 143. 2161

*Hab.* in ramis emortuis *Ulm*i americanæ, Canada (DEARNESS). — Perithecia 6-12 circinata, stromate flavido immersa, 0,5-0,7 mm. diam.; asci 110-120  $\approx$  12; sporidia 5-septato-muriformia brunnea, 12-16  $\approx$  7-8.

2. **Fenestella canadensis** E. et E. North Am. Pyr. p. 515. 2162

*Hab.* in cortice emortuo *Carpini*, Canada Amer. bor. (DEARNESS). — Perithecia 3-10 in quoque stromate; asci 110-115  $\approx$  15 (p. sp.); sporidia 3-septata, parce muriformia, olivaceo-brunnea, utrinque hyalino-subapiculata, 22-30  $\approx$  10-12.

### Sect. 9. Hyalodictyæ.

Sporidia pluri-septato-muriformia v. clathrata, hyalina \*).

#### Clavis analytica generum Hyalodictyarum

##### A) Simplices.

##### a. Subcutaneæ v. demum erumpentes.

##### † Asci suboctospori.

*Pleosphaerulina*. Paraphyses nullæ; perithecia exigua, sine clypeo.

*Catharinia*. Paraphyses præsentis; perithecia mediocria, sine clypeo.

*Peltosphaeria*. Paraphyses præsentis; perithecia mediocria, clypeo stromatico tecta.

\*) Hujusce sectionis (quam ut partem *Dictyosporarum* hucusque habui), generibus et speciebus novis copiosisque continuo accedentibus, divisio *Hyalodictyarum* a *Phæodictyis* tandem, ut in ceteris familiis, opportuna visa est.

†† Asci 16-spori.

*Capronia*. Perithecia setulosa.

b. Superficiales.

*Teichosporella*. Perithecia erostrata.

*Rhamphoria*. Perithecia rostellata.

B) Stromaticæ, compositæ.

*Berlesiella*. Stroma pulvinatum, perithecia boytroso-prominula, setosa.

*Thyridella*. Stroma effusum, eutypeum; perithecia immersa.

*Clathridium*. Stroma subcirculare, valseum; perithecia immersa.

**PLEOSPHÆRULINA** Pass. Diagn. Funghi nuov. V, n. 17 (Etym. *pleo* pro *Pleospora* et *Sphærulina*). — Perithecia tecta, globosa vel lenticularia; asci aparaphysati, 8-spori; sporidia oblongata, pluriseptata, loculis uno vel pluribus sæpe longitudinaliter divis, hyalina. A *Sphærulina* differt tantum sporidiorum loculis nonnullis septulo longitudinali divis. Huic generi adscribenda sunt: **Pleosphærulina Dryadis** (Starb. sub *Sphærulina*) Sacc., **P. constricta** (Starb. sub *Sphærulina*) Sacc., **P. guaranitica** (Speg. sub *Pleospora*) Sacc., **P. sphærelloides** (Speg. sub *Pleospora*) Sacc.

1. **Pleosphærulina rosicola** Passer. l. c. — Peritheciis crebre sparsis 2163 vel gregariis, tectis, globoso-depressis, nucleo albo, ostiolo papillato vix epidermidem perforante, atris; ascis fasciculatis, saccatis vel ovato-elongatis, basi stipite laterali noduloso præditis, 8-sporis, 45–75 = 12,5; sporidiis subdistichis, clavatis 4–5 rarius, 6-septatis, ad septa, præcipue ad medium, leniter constrictis, hyalinis, loculis duobus vel tribus septulo longitudinali divis, 12,5–20 = 5.

*Hab.* in ramulis siccis Rosæ caninæ Vigheffio, prov. Parma Ital. bor.

**CATHARINIA** Sacc. Syll. II, p. 275, IX, p. 892 (Etym. *catharos* purus, candidus). — Perithecia *Pleosporæ*; sporidia pluriseptato-muriformia, hyalina. — Huc ducenda sunt **Catharinia hyalospora** (Speg.) Sacc., **C. maritima** B. R. S., **C. argyrospora** (Harkn.) Sacc., **C. pachyasca** (Auersw.) Sacc., **C. pallida** S. et Sp., **C. americana** (E. et E.) Sacc., (= *Pleosp. hyalospora* E. et E., Syll. IX, p. 892), **C. Peltigeræ** (Fuck.) Sacc.

1. **Catharinia vitrea** (Rostr.) Sacc. *Pleospora vitrea* Rostr. Till. Grönl. 2164 Symp. p. 620.

*Hab.* in foliis emortuis *Potentillæ maculatæ*, in Groen-

Pyrenomycetæ, Sphæriacæ, Scolecosporæ, Ophiobolus. 351  
 landia. — Perithecia globoso-conica, minutissima; asci 45-50 = 20-22; sporidia 3-5-septata parceque muriformia, 21-23 = 9-10, perfecte hyalina.

**TEICHOSPORELLA** Sacc. — Syll. II, p. 303, IX, p. 908 (ut subgen.).

— Huc ducendæ *Teichospora dura*, *phellogena*, *obliqua*, *rostrata*, *patellaris*, *arthonioides*, *planuscula*, *cervariensis*.

1. *Teichospora montana* E. et E. in Proceed. Acad. S. N. Philad. 2165 1893, p. 132.

*Hab.* in lignis putrescentibus, Montana Amer. bor. (FITCH). — Perithecia 250-330  $\mu$ . diam., collabentia; asci 80-85 = 12-15; sporidia 3-5-septato-muriformia, 22-30 = 8-12, hyalina.

2. *Teichospora Azaleæ* (Schw.) Cooke Grev. XX, p. 86, *Sphæria* 2166 *Azaleæ* Schw. Amer. bor. 1685. — Syll. II, p. 424. — Asci clavati; sporidia fusioidea elliptica, obtusa, muriformia, hyalina, 25 = 10-12.

**THYRIDELLA** Sacc. — Syll. IX, p. 921 (ut subgenus). — Huc spectant *Thyridella Colliculus* (nec *Thyridium Philadelphii*, ut indicatur in Syll. IX, p. 921, quia vere phæosporum).

1. *Thyridella canadensis* E. et E. North Am. Pyr. pag. 416 (*Thyridium*). 2167

*Hab.* in ligno dealbato Coniferarum (?), Ontario, Canada (MACOUN). — Perithecia 250  $\mu$ . diam.; asci 100-120 = 12-15; sporidia 5-7-septato-muriformia, hyalina, 20-27 = 10-13.

#### Sect. 10. Scolecosporæ.

**OPHIOBOLUS** Riess — Syll. II, p. 337, IX, p. 923.

1. *Ophiobolus Cytisi-Laburni* Fautr. Rev. Myc. 1891, p. 127, 2168

*Hab.* in ramis Cytisi Laburni, Côte-d'Or Galliæ. — Perithecia ligno insculpta, ostiolo corticem perforante; sporidia 240 = 1.5 subinde 150 = 2.5.

2. *Ophiobolus subolivaceus* Peck 46 Rep. p. 36. 2169

*Hab.* in caulibus emortuis Thalictri (?) Mechanicville Amer. bor. — Perithecia 300-350  $\mu$ . diam. depressa; asci tereti-clavati; sporidia 50-60 = 4, flavido-brunnea, 5-septata.

3. *Ophiobolus Galii-veri* Fautr. Rev. Myc. 1893, p. 21. 2170

*Hab.* in caulibus Galii veri Côte-d'Or Galliæ. — Perithecia

innata, ostiolo cylindraceo tantum emergente; sporidia 130-150  $\approx$  3, multiguttata, flavida, ascum æquantia.

4. *Ophiobolus consimilis* E. et E. North Am. Pyr. p. 394.

2171

*Hab.* in caulibus emortuis Solani Lycopersici et Hibisci esculenti, Newfield N. J. et Louisiana Amer. bor. — Perithecia 200  $\mu$ . diam., ostiolo brevi-cylindraceo; asci 75-100  $\approx$  8; sporidia multiseptata, asci longitudine 2  $\mu$ . crass., flavida.

5. *Ophiobolus brachysporus* Fautr. et Roum. Rev. Myc. 1892, p. 109.

2172

*Hab.* in caulibus Urticæ dioicæ, Côte-d'Or Galliæ. — Perithecia globulosa, ostiolo longiusculo; asci 90-100  $\approx$  10; sporidia 50-60  $\approx$  4, dilute colorata, pluriguttata.

6. *Ophiobolus fragilisporus* Ell. et Ev. Proc. Acad. Phil. 1894, p. 337.

2173

*Hab.* in caulibus herbaceis, Colorado Amer. bor. (CRANDALL). — Perithecia 350-450  $\mu$ . diam., ostiolo brevi-cylindraceo; asci 150-200  $\approx$  5-5,5; sporidia ascum æquantia 1-1,2  $\mu$ . crass. in articulos 8-12  $\mu$ . long. facile dilabentia.

7. *Ophiobolus Andropogonis* E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 1893, p. 448.

2174

*Hab.* in foliis emortuis Andropogonis muricati, Louisiana Amer. bor. (LANGLOIS). — Perithecia 220-250  $\mu$ . diam. ostiolo papillato; asci 60-80  $\approx$  8-10; sporidia 40-80  $\approx$  2-2,5 multiseptata flavida.

8. *Ophiobolus trechisporus* E. et E. North Am. Pyr. p. 394.

2175

*Hab.* in culmis Graminacearum emortuis, Canada (DEARNESS). — Perithecia 400  $\mu$ . alt. ostiolo cylindraceo-conico; asci 180-220  $\approx$  3-3,5; sporidia capillaria, flavido-hyalina 0,5  $\mu$ . crass.

**OPHIOCHÆTA** Sacc. Syll. II, p. 352, ut subg. (1883), IX, p. 934, *Acanthophiobolus* Berl. Descr. num. gen. Piren. p. 4, tab. XXII, fig. 1-2 (1892). Cl. Berlese ad hoc genus quoque ducit *Acanthostigma gracile* et *A. helminthosporum*. Hinc species typicæ generis (quod definiri potest tamquam *Ophiobolus* peritheciis setosis) sunt: *Ophiochaeta* *Penicillus*, *O. chætophora*, *O. incompta*, *O. helminthospora*, *O. gracilis*, *O. barbata*, *O. trichella*. — *Ophiobolus herpotrichus* et *pellitus* plenius inquirendi sunt.

**LINOSPORA** Fuck. — Syll. II, p. 354, et IX, p. 935.

1. *Linospora Brunellæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 337.

2176

*Hab.* in foliis vivis Brunellæ vulgaris, Washington (SUKSDORF). — Clypeus perithecorum 0,3 mm. diam.; asci 80-90  $\approx$  12-15; sporidia 3-septata, hyalino-flavida, 55-65  $\approx$  3.



2. **Linospora Barnadesiæ** Pat. Bull. Soc. Myc. 1891, p. 174. 2177

*Hab.* in pag. inf. foliorum *Barnadesiæ spinosæ*, pr. Quito Æquatoriæ. — Perithecia 300  $\mu$ . lat.; asci 110-130  $\approx$  15; sporidia 65-70  $\approx$  5, guttulata, hyalina.

**OPHIOMASSARIA** Jaczewski Bull. Herb. Boiss. II, pag. 685 (Etym. *ophis* serpens et *Massaria*). — Perithecia cortice immersa, aggregata, globulosa-depressa, ostiolo papillato; asci clavati; sporidia tetrati-fusoidea, 2-3-septata, flavido-hyalina, mucro hyalino obducta.

1. **Ophiomassaria selenospora** (Oth.) Jaczs. l. c. *Cladosphæria* Oth. 2178  
in Mitth. Bern. 1868, pag. 53.

*Hab.* in ramis Alni, Berne Helvetiæ (Oth.). — Perithecia peridermio pustulato tecta; asci 110  $\approx$  12-13; sporidia 40-50  $\approx$  4-5 bi-triseptata flavidula, mucro hyalino obducta. «An *Cryptospora suffusa*, imperfecte observata?».

**OPHIOCERAS** Sacc. — Syll. II, p. 358, IX, p. 938.

I. *Eu-Ophioceras*. Ostiolum rostellatum.

1. **Ophioceras ohiense** E. et E. North Am. Pyr. p. 198. 2179

*Hab.* in ligno putrescente, Ohio Amer. bor. (MORGAN). — Perithecia 1 mm. diam., ostiolo 1-2 mm. long.; asci 90-100  $\approx$  7-8; sporidia 8-12-septata, hyalina, 40-50  $\approx$  3,5-4.

II. *Acerbia* Sacc. \*) Ostiolum obsoletum v. papillatum (Huc forte quoque *O. longisporum* [Ellis] Sacc.).

2. **Ophioceras Hyptidis** P. Henn. Fung. goyaz. p. 108. 2180

*Hab.* in caulibus *Hyptidis* spec. Goyaz Brasiliæ (ULE). — Perithecia erumpenti-superficialia subgloboso-depressa, moriformia, 0,7 mm. diam. rugulosa, ostiolo obsoleto. Asci 100-120  $\approx$  7-8, octospori; sporidia filiformia, 30-36  $\approx$  2,5-3,5 continua, utrinque acuta, hyalina, subparallela.

**CRYPTOSPORA** Tal. — Syll. II, p. 301, IX, p. 939.

1. **Cryptospora kansensis** E. et E. New West-Amer. Fung. p. 21 in 2181  
*Erythea* Vol. II, 1894.

*Hab.* in ramis emortuis *Symphoricarpi vulgaris*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia 6-12 subcircinata, 175-200  $\mu$ . diam.; asci 100-112  $\approx$  8-10; spor. 15-20  $\approx$  7-9, hyalina, 1-3-septata.

\*) Jos. ACERBI, mantuano (1773-1843) botanico-viatori strenuo dico subgenus.

## Fam. 4. Hypocreaceæ De Not.

## Sect. 1. Hyalosporæ.

**NECTRIELLA** Sacc. — Syll. II, p. 448, IX, p. 941.

1. *Nectriella Artemisiæ* Fautr. Rev. Myc. 1891, p. 125.

2182

*Hab.* in caulibus *Artemisiæ vulgaris*, Côte-d'Or Galliæ.  
— Perithecia superficialia, globoso-papillata, flavo-pallida; asci filiformi-stipitati; sporidia navicularia,  $26-30 \approx 12-14$ , continua, hyalina.

2. *Nectriella Maydis* Delacr. Bull. Soc. Myc. 1891, p. 105.

2183

*Hab.* in culmis exsiccatis *Zea Maydis*, Rigny-sur-Arroux Galliæ (FLAGOLET). — Perithecia  $240 \mu$ . diam., sordide cinnabarina; asci....; sporidia  $15 \approx 3,5-4,5$ , hyalina, 3-4-guttulata.

**HYPONECTRIA** Sacc. — Syll. II, p. 455.

1. *Hyponectria Penzigiana* Sacc. Fungi Abyss. p. 5, t. XX, fig. 7. — 2184

Peritheciis late effusis, confertis, epidermide infuscata tectis sed prominulis, globosis, vertice depresso-umbilicatis,  $0,3 \text{ mm. diam.}$ , intus faretis, sanguineo-ochraceis (sub vitro), carnosulis; ascis fusoides-clavatis, breve crasse noduloso-stipulatis,  $75-80 \approx 12-13$ , apice rotundatis, octosporis; sporidiis distichis oblongo-ellipsoideis, utrinque rotundatis,  $15-18 \approx 7-8$ , prope medium lenissime coarctatis, numquam septatis, granulosi v. binucleatis, hyalinis, coarctatis dilutissime roseis; paraphysibus filiformibus, flexuosis, guttulatis.

*Hab.* in ramis *Euphorbiæ polyacanthæ* v. *abyssinicæ* in colonia *Erythrææ*, socio *Glæosporio crocato*, quod verisimiliter status conidicus habendus est. — Perithecia trans epidermidem sordide rufa apparent; species præclaro Abyssiniæ exploratori dicata.

**BYSSONECTRIA** Karst. — Syll. II, p. 456, IX, p. 942.

1. *Byssonectria millaria* Pat. Bull. Soc. Myc. 1893, p. 154.

2185

*Hab.* in pag. inf. foliorum dejectorum, Canzacoto Æquatoriæ.  
— Perithecia subiculo mucedineo albo inserta, globosa, aurantiaca,  $200 \mu$ . diam.; asci  $50-60 \approx 10$ ; sporidia ovoidea, 1-septata,  $10 \approx 3$ , hyalina.

**POLYSTIGMA** Pers. — Syll. II, p. 453, IX, p. 945.

1. **Polystigma Melastomatum** Pat. Bull. Soc. Myc. 1891, p. 175, t. XII, 2186 f. IV, ? *Phyllachora Melastomatis* (Fr.) Sacc. Syll. II, p. 611.

*Hab.* in pag. inf. foliorum *Melastomaceæ* cujusdam, Tam-billo *Æquatoriæ*. — Sparsum, carnosum, suborbiculare, 1-3 mm. diam., nigro-brunneum; perithecia ovoidea, intus alba; asci 170  $\approx$  5; sporidia 10  $\approx$  8-9, continua, hyalina.

**PODOSTROMA** Karst. Hedw. 1892, p. 294, (Etym. *pous* *podos* pes et *stroma*). — Stroma stipitatum, clavatum, erectum, entomogenum, carnosum, læticolor; perithecia stromatē immersa; asci cylindracei, 16-spori; sporidia sphæroidea, hyalina. «Cum *Hypochrea* III, *Podocrea* Sacc. nonnullis notis convenire videtur».

1. **Podostroma leucopus** Karst. l. c.

2187

*Hab.* in larva insecti cujusdam putri inter muscos in silva Sy-rjaas Fennia. — Clavula alutaceo-pallida, 6 mm. long., 4 mm. cr., stipes albus, flexuosus, 5 cm. long., 2 mm. cr.; perithecia sphæroidea, poro pertusa; asci 75  $\approx$  4; sporidia 16, globosa, hyalina, 2-3  $\mu$ . diam.

**PENICILLIOPSIS** Solms. — Laubach — Syll. IX, p. 945.

1. **Penicillipsis Dybowski** Pat. Bull. Soc. Myc. 1892, p. 54, t. VII, 2188 fig. 5.

*Hab.* in seminibus putridis Lianæ cujusdam gummiferæ, Congo Africa. — Stromata conidiophora cæspitosa, flavo-brunnea 2-6 cm. long., 1-2 mm. crass., lateraliter stipites conidiophoros apice capitatos (*Sterigmatocystis* composita) gerentia, stipite rigidulo ex hyphis fasciculatis composito, 250-300  $\approx$  30-35, apice globoso-inflato 60  $\mu$ . diam.; conidia flavo-brunnea, 8  $\approx$  5, verruculosa, sterigmatibus ramosis fulta; stromata ascophora ignota.

## Sect. 2. Phæosporæ.

**SPHÆRODERMA** Fuck. — Syll. II, p. 459, IX, p. 949.

1. **Sphæroderma bulbilliferum** Berl. Malp. V, p. 415, t. XXX, f. 12-14 2189 et t. XXXI.

*Hab.* in foliis putridis *Vitis*, *Cissi*, *Ampelopsidis*, *Avellino* Ital. merid. — Perithecia 400-500  $\mu$ . diam. lateritio-ochracea, globoso-conoidea; asci 95-105  $\approx$  24-28; sporidia citriformia, 26-30  $\approx$  12-14, saturate fulginea; quoad formas micro-macro-conidicas et bulbilliferas cfr. Berl. l. c.

2. *Sphæroderma fimbriatum* Rostr. Oest. Grönl. Svampe pag. 25. 2190

*Hab.* in fimo Cervi Tarandi. in Groenlandia. — Perithecia minima sphæroidea, rubella, ostiolo fimbriato. Asci 100-110  $\approx$  20; sporidia 20  $\approx$  11-12, hyalina dein fusca.

**MELANOSPORA** Corda. — Syll. II, p. 461, IX, p. 950.

1. *Melanospora Coëmansii* West. X Notic. in Bull. Acad. Belg. 1857, 2191  
p. 579, fig. 8, Syll. II, p. 465 (nomen).

*Hab.* parasitice in maculis Phyllostictæ Donckelaeri ad folia Oncidii in Horto botanico, Gand Belgii. — Perithecia 250  $\mu$ . diam. flavo-cerina, rostro 0,7 mm. long., hispido, apice penicillato; sporidia 15  $\approx$  10 — *Melanospora cirrhata* Berk. Brit. Fungi IV, n. 325 (1843) est *M. vervecina* (Desm.) Fuck., Syll. II, p. 561.

2. *Melanospora globosa* Berl. Malpigh. V, p. 409, t. XXIX-XXX. 2192

*Hab.* in frustulis ligneis et herbaceis putridis, Avellino Ital. merid. — Perithecia globoso-ovoidea, 250-280  $\mu$ . diam. fusco-lutea, collo 360-500  $\mu$ . long., apice fimbriato; asci 55-60  $\approx$  48-50; sporidia citriformi-sphæroidea, saturate fuliginea, 18-21  $\approx$  16-17; quoad formas micro-macro-conidicas et bulbilliferam cfr. Berl. l. c.

- 3 *Melanospora macrospora* Karst. in Hedw. 1891, p. 299. 2193

*Hab.* in radicibus tuberosis Brassicæ Napi var. Napobrasicæ ad Mustialam Fennicæ. — Perithecia 0,5 mm. lat., collo cylindraceo multo brevior; asci 450-500  $\approx$  33-36; sporidia ovalia fusca, 42-52  $\approx$  28-35.

4. *Melanospora lagenaria* (Pers.) Fuck. — Syll. II, p. 461. — var. *te- 2194*  
*traspora* Rehm Hedw. 1891, p. 259.

*Hab.* in Polyporo adusto putrescenti in Belgio (BOMMER et ROUSSEAU). — Asci 45-60  $\approx$  21, tetraspori; sporidia 15-17  $\approx$  9-10, bi-guttata, brunnea.

*Sect. 3. Hyalodidymæ.*

**HYPOMYCES** Fr. — Syll. II, p. 466, et IX, p. 954.

1. *Hypomyces Stuhlmanni* P. Henn. F. Afr. II, p. 4. 2195

*Hab.* in pileo Polypori bukobensis pr. Victoria Njansa Africae. — Perithecia subglobosa, mycelio flavo-aurantiaco inserta; asci 70-110  $\approx$  4-6; sporidia 15-19  $\approx$  3-5, 1-septata, hyalina; conidia globosa 4-6  $\mu$ . diam. hyalina.

2. *Hypomyces arachnoideus* Schröt. Pilze Schles. II, p. 268. 2196

*Hab.* in fungis lignosis putridis e. g. *Ustulina* et caudicibus

*Quercus* in Silesia. — *Perithecia* globosa 150–200  $\mu$ . diam., læte brunnea v. albida, subiculo arachnoideo inserta; asci 55–70  $\approx$  3–4; sporidia 8–9  $\approx$  2–3, 1-septata, hyalina.

3. *Hypomyces Trichoderma* (Hoffm.) Sacc. Syll. II, p. 475, Sec. Wettst. 2197  
 Ueb. zwei Ascom. p. 170, perithecia sunt globoso-conica auran-  
 tio-sanguinea, subiculo parum immersa, 250  $\mu$ . d.; asci cylindra-  
 cei, 146–162  $\approx$  7, octospori; sporidia monosticha, elongato-fusoidea  
 utrinque breve mucronata, 1-septata, hyalina, tenuiter verruculosa,  
 26–30  $\approx$  6–7. Repertus quoque ad ligna prope Mautern Stiria sup.  
 (A. HEIDER, 1886),

**NECTRIA** Fr. — Syll. II, p. 479, IX, p. 955.

1. *Eu-Nectria* Sacc.

1. *Nectria pallida* Ell. et Ev. Proc. Acad. Phil. 1894, p. 325. 2198

*Hab.* in cortice emortuo *Caryæ* albæ, Missouri Amer. bor.  
 (DEMETRIO). — *Perithecia* 6–20-cæspitosa, stromate mucedineo albo  
 inserta 150  $\mu$ . diam. pallide flava; asci 40  $\approx$  6–7; sporidia 6–8  $\approx$   
 2–2,5 hyalina, 3–4 nucleata, demum obsolete 1-septata.

2. *Nectria cytosporina* E. et E. New West Amer. Fung. in *Erythea* 2199  
 p. 197.

*Hab.* in ramis pineis emortuis, Seattle Amer. bor. — *Stroma*  
*cytosporoideum* subcutaneum: sporulis 8–10  $\approx$  4–5 brunneis; peri-  
 thecia 3–8 cæspitosa, læte rubra, ovata 250  $\mu$ . diam.; asci 60  $\approx$  6;  
 sporidia 1-septata, 7–8  $\approx$  3–4, hyalina.

3. *Nectria pseudadelphica* Rehm Hedw. 1892, p. 308. 2200

*Hab.* in ramulis, Pichincha Æquatoria (LAGERHEIM). — Peri-  
 thecia 3–20-cæspitosa, 200–300  $\mu$ . diam. piriformia, cinnabarina;  
 asci 120  $\approx$  18–24; sporidia 30  $\approx$  9–10, 1-septata, hyalina, sæpe intus  
 flavido-granulosa.

4. *Nectria atrofusca* (Schw.) Cooke Grev. XX, p. 85, *Sphæria atro-* 2201  
*fusca* Schw. Amer. bor. 1429 Syll. II, p. 391. — Asci clavati,  
 stipitati; sporidia elliptica, uniseptata, hyalina, 10–12  $\approx$  4.

5. *Nectria ipomææ* Halst. Rep. New Jers. Agr. St. 1891, p. 281, c. ic. 2202

*Hab.* in radicibus *Ipomææ Batatæ* in Amer. bor. — Peri-  
 thecia cæspitulosa, globoso-conica, acute papillata, verruculoso-squa-  
 mulosa, rubra; asci tereti-clavati, 8-spori; sporidia tereti-oblonga  
 1-septata, leviter constricta hyalina. Adest status conidicus *Fusa-*  
*rium* sistens.

6. *Nectria Laurentiana* Em. Marchal Bull. Soc. belg. de microsc. 1894, 2203 p. 261, t. VII, f. 2.

*Hab.* in culmis Sacchari officinarum languidis, Congo inf. (E. LAURENT). — Stromatica, ferruginea, rugosa; asci 60-70 = 7-8; sporidia didyma 12-13 = 4-5. Stat. conid. *Fusarii* species.

7. *Nectria nipigonensis* E. et E. New Sp. North Amer. Fung. in Pro. 2204 ceed. Acad. S. N. Philad. 1893, p. 129.

*Hab.* parasitice in Diatrypella favacea ad Fagum, Nipigon Canada (MACOUN). — Perithecia 15-40-cæspitosa, 250  $\mu$ . diam. flavo-rubida dein obscurior; asci 50-55 = 6-7; sporidia 10-12 = 5-6, 1-septata, fusoidea; adest stroma conidicum (*Tubercularia*): sporophora 20-25  $\mu$ . long. conidia 3-4 = 1.

## II. *Dialonectria* Sacc.

8. *Nectria episphæria* (Tode) Fr. Syll. II, p. 497. — var. *Kretzschmariae* P. Henn. F. Afr. I, p. 364. 2205

*Hab.* in stromatibus Kretzschmariae Pechuelii, Loango Africae. — Perithecia sanguinea v. flava, 270  $\mu$ . diam.; asci 55-70 = 4-6; sporidia 7-9 = 4-5.

9. *Nectria granuligera* Starbäck Hedw. 1892, p. 308. 2206

*Hab.* in corbibus Orchidearum in calidariis Horti bot. Upsalæ. — Perithecia gregaria, verruculosa, 1 mm. diam. rubra; asci 80-85 = 10; sporidia 1-septata, leviter constricta, guttulata, 10-14 = 3,5-4,5; verruculae perithecii ex reliquiis mycelii conidiophori formatae.

10. *Nectria obscurata* Ell. et Ev. Bull. Univ. Iowa 1893, p. 398. 2207

*Hab.* in corticibus, Castillo Viejo Amer. centr. (SMITH). — Perithecia 250-300  $\mu$ . diam. subsparsa, rubro-fusca; asci jam elapsi; sporidia 7-8 = 3, 1-septata, hyalina.

11. *Nectria uredinicola* Pat. Bull. Soc. Myc. 1891, p. 175. 2208

*Hab.* in caule Labiatae cujusdam Uredinea deformato, Quito Equatoriae. — Perithecia coccinea, numerosissima, 260-300  $\mu$ . diam.; asci 80-100 = 13-16; sporidia 1-septata, hyalina, 23-30 = 6-7.

12. *Nectria rhizophila* Delacr. Bull. Soc. Myc. 1893, p. 187, t. XII, 2209 fig. 6.

*Hab.* in fragmentis radicum Castaneæ, in Gallia. — Perithecia cinnabarina, sparsa, ostiolo vix prominulo; asci 75 = 4; sporidia hyalina, 12 = 3,5, constricto-1-septata.

III. *Hyphonectria* Sacc.

13. *Nectria oropensoides* Rehm in Lindau Pilzfl. Westf. p. 15 et 2210  
Bref. Unters. X, p. 175, t. IV, f. 31-34.

*Hab.* in ligno dejecto putrescenti in Westfalia. — Perithecia mycelio albido, arachnoideo inserta, globosa, apice rosea, 100  $\mu$ . diam.; asci 50-60  $\times$  5-6; sporidia 5-8  $\times$  3-4, 1-septata, hyalina. Ad *Hypomycetem* vergit.

14. *Nectria lanata* Pat. Bull. Soc. Myc. 1892, p. 52.

2211

*Hab.* in culmis emortuis Bambusæ, Tonkin. — Mycelium effusum, rufo-ferrugineum; perithecia copiosa exigua 230-260  $\mu$ . diam. rufo-aurantiæ; asci 80  $\times$  8-10; sporidia 15  $\times$  6-8, hyalina, 1-septata.

IV. *Phæonectria* Sacc. sporidia flavo-brunnea (simulate striata).

15. *Nectria striispora* Ell. et Ev. Bull. Univ. Iowa 1893, p. 398.

2212

*Hab.* ad cortices Castillo Viejo Amer. centr. (SMITH). — Perithecia cæspitosa 1  $\times$  0,5 mm. flavo-furfuracea, ostiolo succineo; asci 80-100  $\times$  12-15 (p. sp.); sporidia 30-38  $\times$  8-10, flavo-brunnea, 1-septata, leviter constricta, cellulis 3-5 nucleatis, tandem simulate striata (ex corpusculis linearibus quibus implentur?). « An novi generis typus, an *Calonectriae* affinis? ».

## IV. Desciscentes.

16. *Nectria rugispora* Pat. Bull. Soc. Myc. 1892, p. 133.

2213

*Hab.* in cortice putri, Puente de Chimbo Æquatoriae. — Perithecia obscure rubra, globosa, rugulosa, 300  $\mu$ . diam.; asci 75  $\times$  12; sporidia 22-25  $\times$  7-9, 1-septata, echinulata (hyalina?). Forte ad sect. *Cosmosporam* pertinet.

17. *Nectria repens* Pat. Journ. Bot. 1891, p. 320.

2214

*Hab.* in lignis putridis udis, Ke-So Tonkin. — Perithecia ovato-piriformia 230-260  $\times$  200, demum collabentia, crusta rubra repenti effusa ramosa insidentia; asci 90-100  $\times$  6-7; sporidia 10-12  $\times$  5, 1-septata, hyalina v. rubeola. Ad *Corallomycetem* quoque vergit.

## SPHÆROSTILBE Tul. — Syll. II, p. 511, IX, p. 972.

1. *Sphærostilbe Bambusæ* Pat. Bull. Soc. Myc. 1891, p. 175, t. XII, fig. V.

2215

*Hab.* in culmis bambusinis vetustis, Las-plajas Æquatoriae. — Acervuli discoidei 2-3 mm. lat.; perithecia 200-300  $\mu$ . diam.



- stromati semiimmersa, rubro-aurantia; asci 90-100  $\times$  8; sporidia 14-16  $\times$  4-5, 1-septata, biguttata, hyalina. Adest st. conid. *Stilbum Bambusæ* Pat. et Gail. sistens: conidiis 5-6  $\times$  3, biguttatis, hyalinis
2. **Sphærostilbe Macowani** (Körb.) Cooke Grev. XX, p. 16, *Coniocybe* 2216  
*Owani* Körb. Oesterr. bot. Zeitschr. 1877, p. 357.

*Hab.* in corticibus, ad Caput Bonæ Spei. — Perithecia sparsa in fissuris matricis, sed asci immaturi. Status conidicus (*Stilbum*) 2 mm. alt., conidiis 5  $\times$  3.

**LISEA** Sacc. — Syll. II, p. 517.

1. **Lisea leptasca** Sacc. Fung. Abyss. p. 6. — Peritheciis superficialibus 2217  
 minutis, vix  $\frac{1}{4}$  mm. diam., sparsis v. paucis in acervulos collectis, udis globoso-ovoideis, siccis collapsis-cupulatis, atro-cyaneis, contextu parenchymatico, molli, amœne cyaneo; ascis anguste cylindraceis, 60-70  $\times$  5-6, breve stipitatis, sursum primitus truncato-atenuatis, octosporis; sporidiis oblique monostichis, ovato-oblongis, 1-septatis, tandem constrictis, 12-14  $\times$  4,5-5, nubiosis, hyalinis; paraphysibus obsoletis.

*Hab.* in ramulis et caulibus dejectis in M. Dongollo et Asmara Colonia Erythrææ. — Ceteris congeneribus valde affinis.

**CYANOCEPHALIUM** Zuk. Mykol. Mittheil. p. 14 (Etym. *cyanos* et *cephalos* caput). — Perithecia discreta, superficialia, ovato-globosa, flavo-albida, glabra, dura, apice atro-cyaneo, poro pertusa; asci ampullacei, paraphysati, polyspori; sporidia 1-septata, hyalina, minuta. «Ob colorem ad *Hypocreaceas* accedit, duritie vero desciscit.» \*)

1. **Cyanocephalum murorum** Zuk. l. c. t. XII, fig. 1-8. 2218

*Hab.* in muris udis mucosis pr. St. Kantzian Carinthiæ. — Perithecia 300-500  $\mu$ . long.; asci 160-165  $\times$  38-40, apice acuti; sporidia ellipsoidea, 3-3,5  $\times$  1,5-2, 1-septata, hyalina, strato mucoso tenui obducta.

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\*) Hic memoretur **Epigloea bactrospora** Zuk. Oest. bot. Zeitschr. 1890, p. 327, t. III, (Lichenibus adscripta) thallo (proprio?) virenti *Palmellæ* prædita; peritheciis cereis, subglobosis, mollibus; ascis clavatis, polysporis; sporidiis bacillaribus, 7-8  $\times$  1,5, uniseptatis, hyalinis. — In Sphagnis, Salzburg.

I. *Eu-Hypocrea* Sacc.

a. Sporidia subhyalina.

1. **Hypocrea Glaziovii** Sacc. in Hennings Fung. brasil. II, p. 524. 2219  
*Hab.* in cortice levigato arboris ignotæ in Brasilia (GLAZIOU).  
 — Stroma effusum, applanatum, roseo-pallens, 0,3 mm. cr.; perithecia 250  $\mu$ . diam.; asci 75  $\approx$  9-10; sporidia 12-15  $\approx$  4-5, hyalina, mox in articulos cuboideo-globosos 4  $\mu$ . diam. divisa.
2. **Hypocrea albida** Pat. Bull. Soc. Myc. 1892, p. 52. 2220  
*Hab.* in ramulis emortuis, Tonkin. — Stroma convexum, 0,5-1,5 mm. diam., albidum; perithecia 130-150  $\mu$ . long.; asci 60  $\approx$  5; sporidia didyma, mox in articulos globosos, 1-guttatos, 4  $\mu$ . diam. hyalinos divisa.
3. **Hypocrea ochracea** Pat. Bull. Soc. Myc. 1893, p. 155. 2221  
*Hab.* in corticibus, Palulahua Æquatoris (LAGERHEIM). — Stroma discoideum, 5-8 mm. long. undique ochraceum; perithecia 150-180  $\mu$ . diam.; asci 80  $\approx$  4, octospori; sporidia didyma in articulos globosos 3  $\mu$ . diam. hyalinos secedentia.
4. **Hypocrea chionea** E. et E. Am. Pyr. p. 79. 2222  
*Hab.* in ligno dejecto decorticato, Canada (DEARNESS). — Stromata pulvinato-hemisphærica, 1-2 mm. diam., nivea; perithecia ovata, cornicolaria; asci 60  $\approx$  3; sporidia bicellularia, hyalina, cellulis 2,2-3,  $\mu$ . diam.
5. **Hypocrea tremellicola** E. et Ev. Am. Pyr. p. 85. 2223  
*Hab.* parasitica in Tremella albida, Ohio Amer. bor. (MORGAN). — Stroma tenue, crustaceum, cinereum; perithecia 100-115  $\mu$ . diam.; asci 75  $\approx$  5 p. sp.; sporidia ellipsoidea, 1-2-nucleata, demum 1-septata, 7-8  $\approx$  3, hyalina.
6. **Hypocrea lati-zonata** Peck in Ellis Am. Pyr. p. 79. 2224  
*Hab.* parasitica in Cyatho striato in America boreali. — Subiculum sordide album, 0,5-0,7 mm. lat., ostiolis punctatum; asci 75-80  $\approx$  3,5-4; sporidia didyma, cellulis secedentibus, subglobosis, hyalinis, 3-3,5  $\mu$ . diam.

b. Sporidia olivaceo-flavida v. brunnea.

7. **Hypocrea ceramica** E. et Ev. Am. Pyr. p. 85. 2225  
*Hab.* in cortice dejecto Juniperi, Connecticut Amer. bor. (THAXTER). — Stroma convexum, 1-2 mm. diam., lateritium; asci

- 362 Pyrenomycetæ, Hypocreæ, Hyalodidymæ, Hypocrea.
- 55-60  $\approx$  4, p. sp. sporidia bicellularia, cellula sup. cuboidea 4  $\mu$ . diam., inf. ovoidea 4-4,5  $\approx$  3-3,5, brunneola.
8. **Hypocrea virginiensis** E. et E. in Proceed. Acad. N. S. Philad. 442. 2226  
*Hab.* in foliis submortuis *Rhododendri maximi*, Nuttallburg. Virg. Amer. bor. (NUTTALL). — Stroma subcarnosum, subhemisphæricum 1-2 mm. diam., flavido-cinereum; perithecia 110-150  $\mu$ . diam.; asci 40-45  $\approx$  7-8 p. sp.; sporidia 10-12  $\approx$  3-3,5, 1-septata, leniter constricta, flavido-hyalina, utrinque obtuse acutata.
9. **Hypocrea hirsuta** Ell. et Ev. Bull. Univ. Jow. 1893, p. 397. 2227  
*Hab.* in corticibus, Ometepe et Castillo Viejo Amer. centr. (SMITH). — Stroma subhemisphæricum 2-3 mm. lat. brunneum, intus albidum, setis 100-200  $\approx$  4 hirtum; perithecia immersa, 0,5 mm. diam.; asci 100  $\approx$  10; sporidia navicularia; brunnea 7-8  $\approx$  3-3,5 («1-septata?»).
10. **Hypocrea Sacchari** Went De Serehziekte p. 31, tab. VII. 2228  
*Hab.* in vaginis foliorum *Sacchari officinarum* in insula Java. — Stroma pulvinato-depressum, carnosum, pallide fuscum 2-4 mm. lat.; perithecia 200-250  $\approx$  150-200; asci 100  $\approx$  5; sporidia didyma, mox in cellulas binas, sup. globosam 4  $\mu$ . diam., inf. cuboideo-oblongam  $\approx$  6-4 dilabentia, fumose olivacea.
11. **Hypocrea Lixii** Pat. Rev. Myc. 1891, p. 138. 2229  
*Hab.* in hymenio putri *Ganodermatis* cujusdam in Nova Guinea (LIX). — Stroma orbiculare, convexum, brunneum, 2-4 mm. lat.; perithecia 150  $\approx$  120; sporidia didyma, mox in articulos olivaceo-chlorinos, cuboideo-sphæricos, 8  $\approx$  7.

## II. *Battarrina* Sacc.

12. **Hypocrea tenerrima** E. et E. in Proceed. Acad. N. S. Philad. 1893 2230  
 p. 442.  
*Hab.* ad muscos, frustula etc. Nuttallburg West Va Amer. bor. (NUTTALL). — Subiculum arachnoideum niveum; perithecia 180  $\mu$ . diam.; asci 40  $\approx$  3; sporidia oblonga, obtusa, hyalina, 5-6  $\approx$  2, 1-nucleata.
13. **Hypocrea xylarioides** Pat. Bull. Boiss. 1895, p. 71, t. II, fig. 3. 2231  
*Hab.* in truncis vetustis, San Jorge Æquatoriæ. — Stroma subclavatum 1-3 cm. alt., 1-1,5 cr., brunneo-atrum; perithecia globosa, immersa; asci 45  $\mu$ . long.; sporidia globosa, 2-3  $\mu$ . diam., hyalina, octona.

III. *Cavara* Sacc. \*) *Sporidia longitrorsum vittata*, continua.

14. *Hypocrea vittata* Pat. Bull. Soc. Myc. 1893, p. 155.

2232

*Hab.* in truncis *Euphorbiæ*, *Pululahua Æquatoris* (LAGERHEIM).  
— Stroma carnosum, pulvinatum, 5-12 mm. long. albo-carneum;  
perithecia 230  $\mu$ . diam.; asci 90  $\approx$  15, tetraspori; sporidia continua,  
hyalina, ovoidea, 15-18  $\times$  10, longitrorsum 8-vittata.

Sect. 5. *Phragmosporæ*.

**CALONECTRIA** De Not. — Syll. II, p. 540, IX, p. 982.

1. *Calonectria hederiseda* Roll. et Fautr. Rev. Myc. 1894, p. 73, t. CLXI, 2233

f. 7. — Peritheciis globulosis, sparsis v. laxe approximatis, carnosus, flavo-brunneis, in sicco atris,  $\frac{1}{3}$  mm. diam., ostiolo ampliore; ascis cylindraceis, protoplasmate valde refringente, inflato-gibbis, 50-100  $\approx$  8-12; sporidiis sæpe parum distinctis, hyalinis, fusiformibus, 3-septatis 16-18  $\approx$  6; paraphysibus hyalinis, crassis.

*Hab.* ad ramos *Hederæ Helicis*, Côte-d'Or in Gallia.

2. *Calonectria albo-succinea* Pat. Bull. Soc. Myc. 1892, p. 132. 2234

*Hab.* in corticibus putridis, Puente de Chimbo *Æquatoris* (LAGERHEIM). — Perithecia 300-400  $\mu$ . diam., succinea, verrucis albis auctis conspersa; asci 110  $\approx$  20; sporidia 35  $\approx$  8-10, 3-septata, hyalina.

3. *Calonectria Lagerheimiana* Pat. Bull. Boiss. 1895, p. 71. 2235

*Hab.* parasitica in *Meliola* ad ramos *Mimosæ quitensis* *Pululahua Æquatoris*. — Perithecia albido-succinea, ovata, 160  $\approx$  130; asci 56-80  $\approx$  10; sporidia 3-7-septata, constricta, 30-33  $\approx$  3-4, chlorino-hyalina.

**GIBBERELLA** Sacc. — Syll. II, p. 552, IX, p. 988.

1. *Gibberella Trichostomi* Roll. Bull. Soc. Myc. 1891, p. 211, t. XIV, 2236  
fig. 3.

*Hab.* ad folia *Trichostomi nitidi* in insulis *Lerinis* Golf Juan *Galliæ* merid. — Perithecia minuta, sphæroideo-papillata, 250  $\mu$ . diam., atra; asci 110-140  $\approx$  20-25; sporidia 35  $\approx$  10, constricto 3-septata hyalina. — Ad *Gibberellam Saubinetii* spectat *Nectria Melongenæ* Roum. F. Gall. n. 1645.

\*) In honorem doctoris FRIDIANI CAVARA, mycologiæ insubricæ strenui scrutatoris.

**LECITHIUM** Zuk. Mykol. Mittheil. p. 9 (Etym. *lecithos* vas, poculum).

— Perithecia discreta, superficialia, molliuscula, ampulliformia, æruginæa, in collum longum apice porosum attenuata; asci paraphysati, octospori; sporidia fusioidea, 3-septata, hyalina, utrinque appendiculata.

1. **Lecithium ærugineum** Zuk. Mykol. Mittheil. p. 9, t. XI, f. 20-25. 2237

*Hab.* in cortice vetusto *Salicum* prope Klopeiner See Carinthiæ. — Perithecia cum rostello 500-800  $\mu$ . long., 150-200  $\mu$ . cr.; asci 90-100  $\approx$  6-7, parte sporif.; sporidia monosticha, 20  $\approx$  5-6, tri-septata, hyalina utrinque appendice brevi clavulata, mox decidua aucta.

**BROOMELLA** Sacc. — Syll. II, p. 557, IX, p. 988.

1. **Broomella Phyllocharis** Speng. Fl. Guar. nonn. n. 96. 2238

*Hab.* ad folia viva plantæ ignotæ pr. Guarapi Brasiliæ. — Perithecia in macula epiphylla stromatica albo-rosea dense circinantia, carneo-fulva, subimmersa, 80-100  $\mu$ . diam.; asci 50-55  $\approx$  5-6; sporidia 12  $\approx$  2,5-3, 1-septata, vix constricta, hyalina, 2-3-nucleata (an tandem 3-5-septata?). Ad Lichenes vergit.

### Sect. 6. Dictyosporæ.

**THYRONECTRIA** Sacc. — Syll. II, p. 561.

1. **Thyronectria virens** Harkn. in Ellis Amer. Pyr. p. 92. 2239

*Hab.* in ramis emortuis *Rhois*, California, Canada et Connecticut Amer. bor. — Perithecia cæspitosa, flavo-viridi-tomentella, 0,3 mm. diam.; asci 100-110  $\approx$  12-15; sporidia 6-7-septato-muriformia, 18-22  $\approx$  6-8, hyalina.

**MATTIROLIA** Berl. et Bres. — Syll. IX, p. 993.

1. **Mattirolia rhodochlora** (Mont.) Berl. Att. Congr. bot. Gen. p. 574, t. XXII, f. 4-5, ? *Trichosphæria* et *Pleosphæria* Sacc. Syll. I, p. 455, II, p. 305. 2240

*Hab.* in cortice *Alni glutinosæ* in Gallia (MONTAGNE). — Perithecia 0,3 mm. diam. lateritia, viridi-lanuginosa; asci 90-100  $\approx$  18-22; sporidia 4-7-septato muriformia, ex hyalino lutescentia, dein fuscidula, 18-20  $\approx$  10-12, ad septa levissime constricta.

**ULEOMYCES** P. Henn. Fungi goyaz. p. 107 (Etym. ab E. ULE, strenuo mycetum brasiliensium collectore et *myces* fungus). — Stromata

Pyrenomycetæ, Hypocreæ, Scolecosporæ, Ophionectria. 365  
 parasitica, subcrustacea, nectriacea. Asci octospori, aparaphysati;  
 sporidia oblongo-ovoidea v. subclavata, pluriseptato-muriformia,  
 brunnea. — *Bivonea* affinis sed stromatica.

1. *Uleomyces parasiticus* P. Henn. Fung. goyaz. p. 107.

2241

*Hab.* parasitica in *Parmularia Styrcis* ad folia *Styrcis*  
 sp. Minas Geraës Brasilæ (ULÆ). — Stromata gibboso-tuberculosa  
 atro-carnea; perithecia subhemisphærica, semi immersa. Asci 60-  
 100  $\approx$  30-50; sporidia 23-32  $\approx$  11-15, clavato-oblonga, multiseptato-  
 muriformia, subconstricta, brunnea v. atro-vinosa.

### Sect. 7. Scolecosporæ.

**GLOBULINA** Speg. — Syll. IX, p. 993.

1. *Globulina Ingæ* Pat. Bull. Soc. Myc. 1893, p. 154.

2242

*Hab.* in foliis *Ingæ pachycarpæ*, Cotocollao Æquatoriae.  
 — Perithecia ovoidea, papillata, carnea, 100-140  $\approx$  90-100, subiculo  
 mucedineo albo tenuissimo insidentia; asci 60-80  $\approx$  8-10; sporidia  
 filiformia, 15-septulata, hyalina, 80  $\approx$  2.

**TORRUBIELLA** Boud. — Syll. IX, p. 994.

1. *Torrubiella tomentosa* Pat. Bull. Soc. Myc. 1892, p. 133.

2243

*Hab.* in insecto v. potius arachnide ad pag. inf. foliorum ar-  
 boris cujusdam, Puente de Chimbo Æquatoriae. — Perithecia ovato-  
 conica, lanosa 1  $\approx$  0,3 mm., stromate lanato, ochraceo, tenui inserta;  
 asci 600  $\approx$  6-8; sporidia filiformia asci long. hyalina, dein in ar-  
 ticulos 10  $\approx$  1 dilabentia.

2. *Torrubiella rubra* Pat. et Lagerh. Bull. Soc. Myc. 1893, p. 154. 2244

*Hab.* in cadaveribus *Cocci* ad folia *Melastomæ*, Solani,  
 San Jorge Æquatoriae. — Stroma lanosum ex albo rubrum v. rufo-  
 brunneum 6-10 mm. lat., perithecia elongato-conica, 1 mm. alt.,  
 pilosa, purpurea, asci 700-800  $\approx$  6-7; sporidia asci long. dein in ar-  
 ticulos 3-5  $\mu$ . longos, dilabentia.

**OPHIONECTRIA** Sacc. Syll. II, p. 563, IX, p. 994.

1. *Ophionectria rubicola* Pat. Bull. Soc. Myc. 1893, p. 154.

2245

*Hab.* in sarmentis emortuis *Rubi* pr. Quito Æquatoriae. —  
 Perithecia ovato-conica, 0,5 mm. alta, albido-pulverea, apice flavo-  
 viridia; asci 300-350  $\approx$  5-6; sporidia longissima filiformia, parce  
 guttulate, continua, hyalina.

2. *Ophionectria belonospora* (Schröt.) Sacc. *Calonectria* Schröt., Pilze Schles. II, p. 261. 2246

*Hab.* in stromatibus *Diatrypes Stigmatis* in Silesia. —

*Perithecia* sæpe cæspitulosæ, 0,2-0,3 mm. diam., brunneo v. viridulo-flavida; *asci* 70-80 × 7-9; *sporidia* fusoideo-acicularia, acuta, curvula, 45-50 × 3, hyalina. «Forte non satis diversa ab *O. Everhartii*».

3. *Ophionectria scolecospora* Bref. Unters. X, p. 178, t. V, f. 45-46. 2247

*Hab.* in ramulis, gemmis et foliis dejectis Pini pr. Münster.

— *Habitus Nectriæ Cucurbitulæ*; *asci* 100-120 × 5-11, bispori; *sporidia* cylindrica, utrinque obtusa, hyalina, 44-79 × 2,5-4, 18-20-septata, non constricta, dein microsporis perexiguis 2,5-3 × 1 in numeris conspersa.

**BALANSIA** Speg. — Syll. IX, p. 997.

1. *Balansia pallida* Wint. Hedw. 1887, p. 32. 2248

*Hab.* in germinibus vivis *Luziolæ peruvianæ*, S. Catharina Brasilie (ULE). — *Stromata* subglobosa, basi sclerotioidea, 0,5-2 mm. diam. lutea; capitulata *perithecigera*, 0,3-0,5 mm. lat.; *perithecia* peripherica 290-320 × 130-160; *asci* 175-220 × 3,5-4; *sporidia* filiformia *asci* long., 0,8-0,9  $\mu$ . cr. obsolete multiseptata; *conidia* 44-62 × 2.

**CORDYCEPS** Fr. — Syll. II, p. 566, IX, p. 998.

1. *Cordyceps aspera* Pat. Journ. de Bot. 1893, p. 344. 2249

*Hab.* in Coleoptero quodam in Thibet (FARGES). — *Stromata* capitato-elongata 5-12 mm. long., 2 mm. cr. albo-villosa, stipite 30-50 × 1 mm.; *perithecia* superficialia acuta, glabra, fusca, basi albido-tomentella; *asci* 150-200 × 5; *sporidia* filiformia *asci* long., in articulos 6 × 1 secedentia, hyalina.

2. *Cordyceps formicivora* Schröt. Pilze Schles. II, p. 277 (*Torrubia*). 2250

*Hab.* in *Formica ligniperda*, Frankenstein Silesiæ. — *Stroma* globoso-hemisphæricum 2 mm. lat., nigricans, intus albidum, stipite brevissimo, 1-2 × 0,5 mm.; *perithecia* 0,3 mm. diam. semi immersa; *asci* 150-170 × 6-7; *sporidia* 100-110 × 2,5-3, septulata e flavido hyalina.

3. *Cordyceps Sheeringii* Massee Ann. of Bot. V, p. 510; Bot. Cen- 2251

tralbl. 1892, n. 37, p. 334, Grev. XX, p. 15. — *Stromate* minuto, 0,5-1 cm. alt., ochraceo-albo, stipite cylindrico; capitulo subgloboso, *peritheciis* immersis punctato; *ascis* tereti-clavatis, 8-sporis; *sporidiis* linearibus, flexuosis, 5-septatis, non secedentibus, 60 × 1,5.

*Hab.* in *Formica* quadam, Grenada Ind. occid. (SHEERING).



4. **Cordyceps Langloisii** Ell. et Ev. Am. Pyr. p. 62.

2252

*Hab.* in larvis emortuis *Vespæ murariæ*, Louisiana (LAN-  
GLOIS). — Stroma capitatum, 3 mm. alt, stipes  $2 \approx 1$  mm.; capi-  
tulum depresso-globosum, 2 mm. cr. ex albo rubellum; perithecia  
250-300  $\approx$  110-150; asci 180-201  $\approx$  2-2,5; sporidia asci long., 0,5  
 $\mu$ . cr.

**EPICHLÖE** Fr. — Syll. II, p. 579, IX, p. 1001.1. **Epichloe Warburgiana** Magn. Ueb. eine neue Epichl. p. 1 et seq. 2253  
t. VIII, (Atti Congr. bot. Gen.)

*Hab.* in inflorescentia *Clinogynes* ex *Marantaceis*, in ins.  
Celebes et Philippinis. — Stromata cylindraceo-conica (potius tu-  
bulosa), nigricantia, levia, crustacea; perithecia immersa, conferta  
ovato-conica, ostiolo non emergente; asci cylindraceo-fusoidi, apice  
acutati, 8-spori; sporidia filiformia ascum subæquantia, mox dila-  
bentia in articulos cylindraceos 12-13  $\approx$  1,5-1,6 (ex icone, nam men-  
suræ omnes desiderantur).

**HYPOCRELLA** Sacc. — Syll. II, p. 579, IX, p. 1002.1. **Hypocrella tuberiformis** (B. et Rav.) Atkins. Bot. Gaz. 1891, p. 256 2254  
et 282, t. XXV, *Hypocrea* B. et Rav., Sacc. Syll. II, p. 534, Cooke  
Grev. XII, p. 105, nec Pat. (*Dusiella*. Cfr. Syll. IX, p. 1003).

*Hab.* in culmo *Arundinariæ* in Carolina et Alabama Amer.  
bor. — Stroma subglobosum, discolori-stratosum, 1 cm. et am-  
plius lat. hyphis 35-40  $\approx$  2-3 initio tectum, conidiis 7-10  $\approx$  3,5-4  
hyalinis; perithecia sessilia v. basi infossa, 1 mm. long., 0,7 mm.  
cr.; asci 450-750  $\approx$  14; sporidia asci longitudine filiformia, utrin-  
que obtusa, hyalina, pluriseptata, in articulos demum secedentia.

2. **Hypocrella axillaris** Cooke Grev. XX, p. 4. — Stromate obturbi- 2255  
nato v. obclavato, 5  $\approx$  2-3 mm., atro, opaco, ostiolis minute gra-  
nulato, intus albo; peritheciis minutissimis, periphæria immersis;  
ascis 120  $\mu$ . long. cylindricis; sporidiis filiformibus, 100  $\mu$ . long.,  
pluriseptatis, hyalinis.

*Hab.* ad axillas superiores *graminum*, Brisbane Australiæ  
(BAILEY). — Cum *Epichloe stragulante* in nonnullis convenit.

3. **Hypocrella Semen** Bres. in Hennings Fung. bras. II, p. 524. 2256

*Hab.* in foliis *Chamædoreæ*, Minas Geraes in Brasilia (GLA-  
ZIOU). — Stroma carnosulum, subglobosum, 1 mm. diam. rufo-fu-  
scum; perithecia subglobosa; asci 220-270  $\approx$  8-9; sporidia filiformia,  
multiseptata, 150-180  $\approx$  2-2,5.

4. *Hypocrella Glaziovii* Henn. Fun. bras. II, p. 524.

2257

*Hab.* in foliis Chamædoreæ in Minas Geraes Brasiliæ (GLAZIOU). — Stroma scutellato-convexum, atrum, 1 mm. diam.; asci 40-50  $\times$  10-15; sporidia pluriseptata, filiformia, 35-45  $\times$  3-4, deinde in articulos 5-8  $\times$  3-4 hyalinos secedentia.

5. *Hypocrella epiphylla* Massee Journ. of Bot. 1892, p. 164, t. 323, f. 27-30 (*Hypocrea*). 2258

*Hab.* in foliis Dieffenbachia, Morne Cochon Indiæ occid. — Stroma carnosum hemisphaericum 2-6 mm. lat., ochraceum; perithecia ellipsoidea; asci cylindracei; sporidia continua 50-55  $\times$  1-5 lineari-fusoidea.

6. *Hypocrella? Gardeniæ* Henn. Fung. Warburg. pag. 223 (*Hedwigia* 1893). 2259

*Hab.* in foliis Gardeniæ floridæ in horto Bogor, Java. — Stromata hypophylla pulvinata, pallide brunnea, carnosula 1 mm. diam., subiculo pallido insidentia; asci non visi; sporidia in articulos hyalinos, fusoides, 8-10  $\times$  3 dilabentia.

7. *Hypocrella obconica* P. Henn. Fung. goyaz. p. 106. 2260

*Hab.* ad folia viva, Minas Geraes Brasiliæ (GLAZIOU). — Stromata obconica v. turbinata, griseo-brunnea 0,5-1 mm. diam. Perithecia immersa. Asci 170-220  $\times$  12-15; sporidia filiformia; multi-septata, in articulos 1,5-2  $\times$  0,5-1 dilabentia.

8. *Hypocrella abnormis* P. Henn. Fung. goyaz. p. 106. 2261

*Hab.* ad folia ignota in Brasilia (GLAZIOU). — Stromata pulvinato-applanata, 5 mm. diam., e flavo glaucescentia; perithecia ellipsoidea ostiolis tuberculatis olivaceis. Asci 150-200  $\times$  7-9; sporidia 120-150  $\times$  1-1,5, plerumque continua.

## Fam. 5. Dothideaceæ Nits. et Fuck.

## Sect. 1. Hyalosporæ.

## PHYLLACHORA Nits. — Syll. II, p. 595, IX, p. 1006.

1. *Phyllachora Cassiæ* P. Henn. Fung. goyaz. p. 110. 2262

*Hab.* in foliis vivis Cassiæ sp. Goyaz Brasiliæ (ULE). — Stromata plerumque hypophylla, subpulvinata, rotundata, atra opaca, levia, 0,5-1 mm. diam. Asci 80-100  $\times$  11-15; sporidia ellipsoidea, continua, nubilosa, hyalina, octona.

2. *Phyllachora Acaciæ* P. Henn. Hedw. 1894, p. 233. 2263

*Hab.* in foliis Acaciæ Farnesianæ, Balao Æquatoriæ (EG-

- Pyrenomycetæ, Dothideaceæ, Hyalosporæ, Phyllachora. 369
- gers). — Stromata amphigena, exigua, nitida 140-200  $\mu$ . diam.; asci 45-52  $\approx$  14-17; sporidia oblonga, hyalina, continua, 12-15  $\approx$  4-5.
3. **Phyllachora frigida** Rostr. Bidr. Asc. Dovr. p. 5. 2264  
*Hab.* in caulibus vivis Phacæ frigidæ, Dovre Norvegiæ. — Stromata ambiens, atrum; asci 25  $\approx$  20; sporidia 9-10  $\approx$  2,5-3,5, basi 1-guttulata.
4. **Phyllachora Machærii** Henn. Fung. bras. II, p. 524. 2265  
*Hab.* in foliis Machærii, Santa Catharina Brasilis (SCHENCK). — Stromata rotundato-pulvinata, applanata, atro-fusca, 1 mm. diam.; asci 85-105  $\approx$  7-9; sporidia 12-15  $\approx$  4,5-6, hyalina.
5. **Phyllachora oxalina** E. et E. North Am. Pyr. p. 602. 2266  
*Hab.* in foliis Oxalidis corniculatæ, Delaware Amer. bor. (COMMONS). — Stromata amphigena, minuta 0,2-0,3 mm. diam.; asci.... sporulæ 7-8  $\approx$  2-2,5, hyalinæ, demum 1-septatæ.
6. **Phyllachora Begoniæ** Pat. Bull. Boiss. 1895, p. 71. 2267  
*Hab.* in pag. sup. foliorum Begoniæ, San Jorge Æquatoriæ. — Stromata orbicularia 0,5-1 mm. lat., atro-nitida, 2-4-locellata; asci 120-130  $\approx$  15-20; sporidia 22-25  $\approx$  5, hyalina, mucro obvoluta.
7. **Phyllachora maculata** Cooke Grev. XX, p. 4. — Stromatibus gregariis in maculis bullatis, fulvescentibus, 1,5 cm. lat., semi immer-sis, nigris; ascis clavatis; sporidiis elongato-ellipsoideis, utrinque acutatis, hyalinos, 22-25  $\approx$  8. 2268  
*Hab.* in foliis Eucalypti, Victoria Australiæ (MARTIN).
8. **Phyllachora goyazensis** P. Henn. Fungi goyaz. p. 110. 2269  
*Hab.* in foliis vivis Myrtacearum, Goyaz Brasilis (ULE). — Stromata sæpius epiphylla pulvinata, rotundata, nitidula. Asci 70-90  $\approx$  17-18; sporidia 12-14  $\approx$  8-12, utrinque obtusula, granulosa, hyalina.
9. **Phyllachora subcircinans** Speg. Fl. Guar. nonn. n. 106, p. 37. 2270  
*Hab.* ad folia viva Myrtaceæ cujusdam, Caá-guazú Amer. austr. — Stromata epiphylla, subcircinantia, atro-nitida, 0,5 mm. diam. 1-3-locularia; loculi 200  $\mu$ . diam.; asci 80-90  $\approx$  10-16; sporidia 14-16  $\approx$  8-10, hyalina, granuloso-guttata, initio mucro cincta.
10. **Phyllachora Pittospori** P. Henn. F. Æthiop. I, p. 119, t. IV, f. 7. 2271  
*Hab.* in foliis Pittospori abyssinici, in colonia Erythræa (SCHWEINFURTH). — Stromata epiphylla, pulvinata, atro-nitida; loculi ovoidei, pauci; asci 110-150  $\approx$  15-25; sporidia 14-18  $\approx$  10-13 hyalina.
11. **Phyllachora gentilis** Speg. Fl. Guar. nonn. n. 109, p. 38. 2272  
*Hab.* ad folia viva Eugeniæ in dumetis, Paraguay. — Stro-

mata epiphylla, nitida, 1-2 mm. diam., maculæ atropurpureæ innata, 3-9-locularia; loculi 200-250  $\mu$ . diam.; asci 120  $\approx$  12-14; sporidia 18-20  $\approx$  8-9, hyalina, primo muco obducta (an demum excentrice 1-septata?).

12. *Phyllachora marginalis* Pat. Bull. Soc. myc. 1892, p. 134. 2273

*Hab.* in margine pag. inf. foliorum *Rhois* cujusdam, Banos *Æquatoriæ* (LAGERHEIM). — Stromata atra, minutissima, 0,5 mm. diam., convexa; loculi pauci; asci 18-20  $\approx$  15; sporidia 13-14  $\approx$  6-7, hyalina.

13. *Phyllachora Lagerheimiana* Rehm, Hedw. 1891, p. 255. 2274

*Hab.* ad folia viva *Ilicis scopulorum*, Panecillo pr. Quito *Æquatoriæ* (LAGERHEIM). — Stromata rotundato-oblongata, 1-3 mm. longa; loculi immersi; asci 90  $\approx$  15; sporidia 12-14  $\approx$  7-8, hyalina dein fuscidula.

14. *Phyllachora Xanthoxyli* Wint. Hedw. 1887, p. 34. 2275

*Hab.* ad folia petiolosque vivos *Xanthoxyli*, Santa Catharina *Brasilæ* (ULE). — Stromata epiphylla, subrotundata, circinantia, atro-nitentia, 0,5-1 mm. diam.; loculi immerso-subprominuli; asci 84-100  $\approx$  12-14; sporidia 14-16  $\approx$  7, utrinque rotundata, hyalina.

15. *Phyllachora gratissima* Rehm, Hedw. 1892, p. 306. 2276

*Hab.* ad folia *Perseæ gratissimæ*, Bannos *Æquatoriæ* (LAGERHEIM). — Stroma hemisphærica, verruculosa, atra 0,5-1,5 mm. diam., denique confluentia; loculi immersi; asci 100-110  $\approx$  21; sporidia 18  $\approx$  9-10, ex hyalino flavidula, guttulata.

16. *Phyllachora Triumphettæ* Pat. Bull. Soc. Myc. 1892, p. 135. 2277

*Hab.* in foliis *Triumphettæ*, amphigena, Bannos *Æquatoriæ* (LAGERHEIM). — Stromata 0,5-1 mm. long. convexa, opace nigra; asci 60-80  $\approx$  10-15; sporidia 10  $\approx$  6-7, hyalina.

17. *Phyllachora Escalloniæ* Pat. Bull. Soc. Myc. 1891, p. 177. 2278

*Hab.* ad folia *Escalloniæ*, Quinoas *Æquatoriæ* (LAGERHEIM). — Stromata hypophylla, 8-10 mm. lat., plurilocularia, atra, undulata, loculi prominuli, pauci, 0,5 mm. diam.; asci 110-120  $\approx$  20; sporidia 23-25  $\approx$  6-7, hyalina, utrinque acutata.

18. *Phyllachora Durantæ* Rehm, Hedw. 1892, p. 306. 2279

*Hab.* ad folia *Durantæ* pr. Quito *Æquatoriæ* (LAGERHEIM). — Stromata atro-nitida suborbicularia, 1-3 mm. diam.; loculi immerso-prominuli; asci 90  $\approx$  21; sporidia 15  $\approx$  8, dilute flavida, guttulata.

19. *Phyllachora Cestri* Pat. Bull. Soc. Myc. 1891, p. 176. 2280

*Hab.* in pag. sup. foliorum *Cestri*, Tambillo *Æquatoriæ*. — Stromata orbicularia, 1 mm. diam., 2-3-locularia; loculi immersi

- Pyrenomycetæ, Dothideaceæ, Hyalosporæ, Phyllachora. 371  
 180-200  $\mu$ . diam.; asci 80-100  $\times$  23-25; sporidia 20  $\times$  6-7, ovoidea, hyalina.
20. *Phyllachora subtropica* Speg. Fl. Guar. nonn. n. 107, p. 38. 2281  
*Hab.* in foliis Sebastianiæ? pr. Paraguari Amer. austr. — Stromata amphigena, plurilocularia, orbiculata, rugulosa, nigra, 1 mm. diam.; loculi 150-200  $\mu$ . diam.; asci 100  $\times$  10-11 p. sp.; sporidia 10-13  $\times$  3-5, hyalina, initio muco obducta.
21. *Phyllachora asterigena* Ell. et Ev. Proc. Acad. Phil. 1894, p. 345. 2282  
*Hab.* in foliis viventibus Asteris oblongifolii, Kansas Amer. bor. (BARTHOLOMEW). — Stroma tenue ob ostiola rugulosum, hypophyllum; loculi subglobosi, 100  $\mu$ . diam.; asci.... sporulæ 12-25  $\times$  4-4,5, constricto 1-septatæ, hyalinæ.
22. *Phyllachora nidulans* Pat. Bull. Soc. Myc. 1891, p. 176. 2283  
*Hab.* in pag. inf. foliorum Compositæ cujusdam, Panecillo pr. Quito Æquatoriæ. — Stromata minuta 0,5-1 mm. lat. orbicularia, 4-7-locularia; asci 180-200  $\approx$  20; sporidia 19-20  $\approx$  10-12, hyalina.
23. *Phyllachora leviuscula* Speg. Fl. Guar. nonn. n. 102, p. 36. 2284  
*Hab.* ad folia Rubiaceæ cujusdam, Paraguay. — Stromata amphigena discoideo-applanata, 1 mm. diam., opace atra, 5-12-locularia; asci 45-50  $\approx$  12; sporidia 12  $\approx$  6, eguttulata, hyalina.
24. *Phyllachora Symploci* Pat. Champ. Asiat. p. 3. 2285  
*Hab.* in foliis Symploci cujusdam, Tonkin (BON). — Stromata epiphylla, hemisphærica, atro-nitida, 300  $\mu$ . diam., 1-locularia; asci 80-90  $\approx$  20; sporidia 16-19  $\approx$  8, hyalina.
25. *Phyllachora Miconiæ* P. Henn. Fung. goyaz. p. 110. 2286  
*Hab.* in foliis vivis Miconiæ spec. Goyaz Brasiliæ (ULE). — Stromata epiphylla, subpulvinata, vix 0,3 mm. diam. atro-nitida. Asci 35-55  $\approx$  21-24; sporidia 14-20  $\approx$  9-10, granulosa, hyalino-flavidula.
26. *Phyllachora Sellowii* Henn. Fung. bras. II, p. 525. 2287  
*Hab.* in foliis Miconiæ lepidotæ in Brasilia (SELLOW). — Stromata hypophylla, pulvinato-applanata, nigra, 1 mm. diam.; loculi subglobosi; asci 100-120  $\approx$  7-9; sporidia 10-14  $\approx$  5-6, hyalina, curvula.
27. *Phyllachora pululahuensis* Pat. Bull. Soc. Myc. 1893, p. 156. 2288  
*Hab.* in foliis Melastomaceæ, Pululahua Æquatoriæ (LAGERHEIM). — Stromata atro-nitida, 1-2 mm. lat., tuberculosa, epiphylla; asci 100  $\approx$  30; sporidia 23  $\approx$  12, hyalina, intus granulosa.
28. *Phyllachora dendritica* Rehm, Hedw. 1892, p. 305. 2289

*Hab.* in foliis vivis ramulisque Monninæ pr. Quito Æquator. riæ (LAGERHEIM). — Stromata suborbicularia dein sæpe dendritica usque 1 cm. longa, atra, vix nitida; loculi immersi; asci 70  $\approx$  9; sporidia 10  $\approx$  7, hyalina.

29. *Phyllachora fructigena* P. Henn. Fung. goyaz. p. 109.

2290

*Hab.* in copulis et pedunculis Nectandix Goyaz Brasilix (ULE).

— Stromata carbonaceo-atra, niti da, pulvinata, levia. Asci 30-35  $\approx$  18-24; sporidia 10-13  $\approx$  7-9, hyalina, nubilosa.

30. *Phyllachora Arrabidæ* P. Henn. Fung. goyaz. p. 109.

2291

*Hab.* ad folia viva Arrabidæ æ spec. Goyaz Brasilix (ULE).

— Stromata rotundata, atra vix nitida, 1-1,5 mm. diam. Asci 65-87  $\approx$  13-18; sporidia 13-15  $\approx$  4,5-5,5 guttulata, hyalina.

31. *Phyllachora Quebrachii* Speg. Fl. Guar. nonn. n. 103, p. 36.

2292

*Hab.* ad folia viva Aspidospermæ Quebrachii, Paraguay.

— Stromata minutissima, 1-2-locularia, 0,3-0,5 mm. diam., niti-  
dula; loculi 150-200  $\mu$ . diam.; asci 80-90  $\approx$  10-12; sporidia 12-14  
 $\approx$  6-7, hyalina, initio leviter mucosa. *Ph. inclusæ* affinis.

32. *Phyllachora crotonicola* Pat. Bull. Soc. Myc. 1893, p. 156.

2293

*Hab.* in foliis Crotonis, amphigena, Banos Æquatorix (LA-  
GERHEIM). — Stromata atro-nitida, 0,5-1 mm. lat., orbicularia; asci  
100-120  $\approx$  13-15; sporidia 14-16  $\approx$  10, hyalina.

33. *Phyllachora Kärnbachii* Henn. Fung. novoguin. II, p. 39. — Stro-

2294

matibus epiphyllis, crustaceis, pulvinatis, irregulariter rotundatis,  
sæpius confluentibus, rugulosis, nigris, nitentibus; loculis subglo-  
bosis; ascis clavatis, substipitatis, octosporis 50-62  $\approx$  10-15; spori-  
diis ellipsoideis, raro ovoideis, hyalino-flavescentibus, 9-12  $\approx$  7-8.

*Hab.* in foliis Fici, Nova Guinea.

34. *Phyllachora abyssinica* P. Henn. Fung. Æth. I, p. 119.

2295

*Hab.* in foliis vivis Fici sp. in colonia Erythræa (SCHWEIN-  
FURTH). — Stromata epiphylla, atro-nitida, pauci-locularia, undulata;  
asci 80-120  $\approx$  14-22; sporidia 10-16  $\approx$  7-10, hyalina, subgranulata.

35. *Phyllachora Schweinfurthii* P. Henn. F. Afr. I, p. 364.

2296

*Hab.* in foliis Fici Pseudo-Caricæ, Gheleb Erythræa  
(SCHWEINFURTH). — Stromata epiphylla, punctiformia, picea; asci  
ellipsoidei v. clavati; sporidia 15-19  $\approx$  9-11, luteola.

36. *Phyllachora amenti* Rostr. Bidr. Ascom. Dovr. p. 5.

2297

*Hab.* in amentis capsulisque Salicis reticulatæ, Dovre  
Norvegiæ. — Stromata effusa, 2-3 cm. longa; asci 50-60  $\approx$  12-14;  
sporidia 12-15  $\approx$  5-6; adsunt sporulæ pycnidicæ 35-45  $\approx$  1, septatæ.

37. *Phyllachora cocoicola* P. Henn. Fung. goyaz. p. 110.

2298

*Hab.* a foliis vivis *Cocoës* sp. Goyaz Brasiliæ (ULÉ). — Stromata amphigena, gregaria, pulvinata, atro-nitidula. Asci 100-130  $\approx$  13-16; sporidia 15-18  $\approx$  7-9, biguttulata, hyalina.

38. *Phyllachora Philodendri* Pat. Bull. Soc. Myc. 1892, p. 134. 2299

*Hab.* amphigena in foliis *Philodendri* in Æquatoria (LAGERHEIM). — Stromata suborbicularia, 3-5 mm. diam., opaca, nigra; loculi immersi, 300  $\approx$  150; asci 130  $\approx$  6-7; sporidia 13  $\approx$  6, diu hyalina, demum fuscidula.

39. *Phyllachora Glaziovii* P. Henn. F. Brasil. I, p. 15. 2300

*Hab.* in foliis *Dioscoreæ pachycarpæ*, Rio Janeiro Brasiliæ (GLAZIOU). — Stromata amphigena, elevato-convexa, atro-nitida 1-2 mm. diam.; asci 48-58  $\approx$  10-15; sporidia 15-22  $\approx$  6-9, ex hyalino brunnea.

40. *Phyllachora perisporioides* Sacc. Rev. Myc. 1891, p. IV (indicis). 2301

*Hab.* in foliis *Palmarum*, forte *Phœnicis*, in insula Oceanica Mahé (GASTON BRUNAUD). — Stromata maculiformia, subcircularia, epiphylla, atro-nitida, 3-6 mm. diam.; loculi subglobosi, prominentes, 250  $\mu$ . diam., supra demum circumscissi; asci 40  $\approx$  35; sporidia 19-22  $\approx$  9-11, nucleato-guttulata, hyalina.

41. *Phyllachora Luzulæ* (Rabenh.) Sacc. *Sphaeria* Rabenh. Bot. Zeit. 2302

1863, p. 229. — Stromata substriaeformi, atro, carnosulo, nucleo atro; ascis fasciculato-aggregatis, clavatis, 8-sporis, aparaphysatis; sporidiis ovoideis, continuis, hyalinis.

*Hab.* in foliis *Luzulæ* in Germania.

42. *Phyllachora Coicis* P. Henn. Hedw. 1895, p. 12. 2303

*Hab.* in foliis *Coicis agrestis*, Hanoi Tonkin (BALANSA). — Stromata striaeformia, atra; perithecia immersa, subglobosa; asci 50-70  $\approx$  15-20; sporidia 16-22  $\approx$  11-14, hyalino-flavida. *Ph. bonariensis* affinis.

43. *Phyllachora acutispora* Speg. Fl. Guar. nonn. n. 110, p. 39. 2304

*Hab.* ad folia viva *Graminacearum*, forte *Panici*, Posta-Cué Amer. austr. — Stromata epiphylla, breve linearia, opaca, plurilocularia, 1-2 mm. longa, 0,3-0,5 mm. lat.; loculi 150-200  $\mu$ . diam.; asci 90  $\approx$  8; sporidia limoniformia fusioidea, 15-18  $\approx$  5-6, hyalina, (an tandem 1-septata?).

44. *Phyllachora Asprellæ* Roum. et Fautr. Rev. Myc. 1892, p. 175. 2305

*Hab.* in foliis *Asprellæ Hystricis* in horto Noïdan, Côte-d'Or Galliæ. — Stromata amphigena, nigra suborbiculari-oblonga; asci 80-110  $\approx$  8-9; sporidia 10-14  $\approx$  6-8, hyalina, 1-guttata.

45. *Phyllachora Dactylidis* Delacr. Bull. Soc. Myc. 1892, pag. 191, 2306



374 Pyrenomycetæ, Dothideaceæ, Phæosporæ, Auerswaldia  
t. XVII, f. 1 et in Le Bret. Niel Champ. Norm. V, Liste p. 153,  
fig. 7.

*Hab.* in foliis exsiccatis Dactylidis glomeratæ pr. Rouen  
Galliæ. — Stromata amphigena, atra, usque 1 mm. longa; asci  
108  $\approx$  12; sporidia ex hyalino luteola, 17–18  $\approx$  9, demum leviter api-  
culata.

**DIACHORA** Jul. Müll. in Bot. Centralbl. 1894, vol. 57, p. 346 (Ety-  
m. *dis* bis et *achor* ulcus). Est *Placosphæria* ascis instructa. Asci  
cylindracei; sporidia ovoidea; paraphyses filiformesasco longiores.  
Est status ascophorus *Placosphæria*, quæ simul adest.

1. **Diachora Onobrychidis** (DC. p. p.) Jul. Müll. l. c. Habitus *Placo-*  
*sphæria Onobrychidis*, stromatibus plerumque ovalibus, 8–12 mm. 2307  
long.; peritheciis sphæroideis 337  $\approx$  270  $\mu$ .; ascis 76–97  $\approx$  6,5–10;  
sporidiis 12–16  $\approx$  6,5–8.

*Hab.* in foliis Onobrychidis sativæ, in Germania.

**HYALODOTHIS** Pat. et Hariot Bull. Soc. Myc. 1893, p. 210 (Ety-  
m. *hyalos* et *dothis* pro *Dothidea*). — Glumicola; stroma superficiale,  
ovaria v. fructus glumasque incrustans, atrum, effusum pulvina-  
tumque, coriaceo-corneum v. subcarbonaceum, sclerotiforme; loculi  
numerosissimi, immersi, exigui; asci octospori; sporidia oblonga,  
continua, hyalina. Nonnullis notis ad *Hypocreaceas* accedit.

1. **Hyalodothiæ Clavus** Pat. et Hariot Bull. Soc. Myc. 1893, p. 210.  
*Hab.* in glumis Graminearum, Congo Africæ (DYBOWSKI). 2308  
— Stroma 1–2 cm. long. sub lente rugulosum; loculi 100–130  $\approx$   
80; asci 30  $\approx$  6, clavati; sporidia fusoidea, 10  $\approx$  3, hyalina, guttulata.

2. **Hyalodothis? Caricis** Pat. l. c. p. 210 (in nota).  
*Hab.* ad spicas Caricis cujusdam in Japonia (FAURIE). — 2309  
Stroma incrustans, subglobosum, atro-nitens, 4 mm. lat.; loculi nu-  
merosi, minimi, immersi, vix prominuli; asci immaturi visi.

## Sect. 2. Phæosporæ.

**AUERSWALDIA** Sacc. — Syll. II, p. 626.

1. **Auerswaldia Baccharidis** Pat. Bull. Baiss. 1895, p. 72.  
*Hab.* in ramis languidis Baccharidis oblongifoliæ, Pi. 2310  
chinchæ Æquatoris. — Stroma ellipticum 2–4 mm. long., fusco-  
brunneum; loculi profunde immersi; asci 140  $\approx$  25; sporidia 20  $\approx$   
10, flava.

## Sect. 3. Hyalodidymæ.

**DOTHIDELLA** Speg. — Syll. II, p. 627, IX, p. 1036.

1. *Dothidella myrtincola* Rehm, Hedw. 1892, p. 305.

2311

*Hab.* in foliis Myrti, Banos Æquatoriæ (LAGERHEIM). — Stromata sæpius epiphylla, hemisphærica, verrucosa, atro-nitida, 0,5-1 mm. diam.; loculi globosi; asci 90-100  $\approx$  18-20; sporidia 12-15  $\approx$  7-8, 1-septata, hyalina.

2. *Dothidella inæqualis* Cooke Grev. XX, p. 5.

2312

*Hab.* in foliis emortuis Eucalypti, Victoria Australiæ (MARTIN). — Stromata erumpenti-superficialia, amphigena, atro-nitida, 2 mm. diam. 3-5 locularia; asci clavati; sporidia 20-24  $\approx$  6, inæqualiter bilocularia, ex hyalino succinea; loculi subinde stylosporei; sporulis 50-55  $\approx$  3, hyalinis, 3-5-septatis.

3. *Dothidella Melastomatis* Pat. Bull. Soc. Myc. 1891, p. 177.

2313

*Hab.* in foliis Melastomaceæ cujusdam, Tambillo Æquatoriæ (LAGERHEIM). — Stromata epiphylla, applanata, facile dilabentia; 1-5 mm. lat.; loculi numerosissimi, intus albi; asci 65-95  $\approx$  12-15; sporidia 14-18  $\approx$  5-6. chlorino-hyalina, inæqualiter 1-septata.

4. *Dothidella pulvinulata* Pat. Bull. Soc. Myc. 1893, p. 157.

2314

*Hab.* in foliis Loranthaceæ cujusdam, Corazon Æquatoriæ (LAGERHEIM). — Stromata pulvinata, sæpe hypophylla 2-3 mm. diam. plurilocularia; loculi 200 . diam.; asci 80-100  $\approx$  20-25; sporidia 35  $\approx$  6-7 constricto, 1-septata, hyalina.

5. *Dothidella? Thieleodoxæ* P. Henn. Fung. gôyaz. p. 111.

2315

*Hab.* in foliis vivis Thieleodoxæ lanceolata, Goyaz Brasiliæ (ULE). — Stromata amphigena, carbonaceo-cornea; hemisphærico-pulvinata, atra, rugulosa, 0,5-2 mm. diam. Asci 30-40  $\approx$  15-20; sporidia 12-14  $\approx$  8-9, medio 1-septata, levia, hyalina.

6. *Dothidella Bambusæ* Cooke Grev. XX, p. 91. — Epiphylla; stro-

2316

matibus oblongis ellipticisve, minutis, convexis, atris  $\frac{1}{2}$ -1 mm. long., loculis paucis; ascis clavatis; sporidiis lanceolatis, medio uniseptatis, intus granulatis, pallidis, 40-45  $\approx$  10.

*Hab.* in foliis Bambusæ in Brasilia (GLAZIOU).

7. *Dothidella Laminariæ* Rostr. Myk. Meddel. V, p. 213, 218, fig. 3.

2317

*Hab.* in stipitibus Laminariæ longicruris, in littore occid. Groënlandiæ (HARTH). — Stroma effusum, atrum, loculi immersi, 120-140  $\mu$ . diam. Asci 65-70  $\approx$  12-14; sporidia 20-21  $\approx$  7-8, 1-septata, non constricta, hyalina.

**MONOGRAPHOS** Fuck. — Syll. II, p. 457 (inter Hypocreaceas).

- 1.
- Monographos microsporus**
- Niessl in Rehm, Hedw. 1888, p. 171. 2318

*Hab.* in frondibus *Pteridis aquilinæ* in Germania. — Asci 36-45 = 5; sporidia clavata 1-septata, 8-10 = 2,5-3, hyalina, submonosticha. Teste auctore et cl. Rehm l. c. *Didymella pteridicola* (B. et C.) Sacc. Syll. I, p. 561, huc spectat. — Var. **Struthiopteridis** Krieger in Rehm Hedw. 1892, p. 303. In frondibus *Struthiopteridis* in Germania: asci 50 = 9; sporidia fusioidea 12-14 = 4-4,5, 1-septata, hyalina.

**SCIRRHIA** Nits. — Syll. II, p. 635, IX, p. 1040.

- 1.
- Scirrhia ostiolata**
- E. et Gallow. North Am. Pyr. p. 742. 2319

*Hab.* in calamis emortuis *Cyperi articulati*, Texas Amer. bor. (JENNINGS). — Stromata oblongo-elliptica, 3-6 = 1-1,5 mm. plurilocularia; asci 55-65 = 6-7; sporidia 12-15 = 3-4, constricto-1-septata, hyalino-flavida.

**PLOWRIGHTIA** Sacc. — Syll. II, p. 635, IX, p. 1041;

I. *Eu-Plowrightia*. Asci 4-8-spori.

- 1.
- Plowrightia Karsteni**
- Delacr. Bull. Soc. Myc. 1891, p. 104, t. VII, 2320
- 
- fig. a.

*Hab.* in cortice ramorum *Betulæ*, Mustiala Fenniae. — Stromata innato-erumpentia, atra, 1 mm. long.; loculi pauci, sphaerico-applanati; asci 120 = 14; sporidia 25 = 9-10, 1-septata, hyalina (raro uno alterove loculo bipartito).

- 2.
- Plowrightia concaviuscula**
- (E. et E.) Sacc.,
- Dothidea*
- E. et E. North 2321
- 
- Am. Pyr. p. 612.

*Hab.* in ramis emortuis *Magnoliæ glaucæ*, Newfield N. J. Amer. bor. — Stromata inaequalia 1-2 = 0,7-1 mm. sæpius concava, nigra; loculi 100  $\mu$ . diam.; asci 55-65 = 12-15; sporidia 15 = 4, uniseptata e flavido hyalina.

II. *Plowrightiella* Sacc. Asci polyspori.

- 3.
- Plowrightia polyspora**
- (Bref.) Sacc.
- Dothidea polyspora*
- Bref. 2322
- 
- Unters. X, p. 269, t. IX, f. 33-38.

*Hab.* in ramulis *Callunæ vulgaris* prope Münster. — Stromata subrotunda 1 mm. diam. erumpentia, plurilocularia; asci 105-123 = 16-18; sporidia 32,15-20 = 4-5, fusioidea, constricto 1-septata hyalina, cellula superiore crassiore.

## Sect. 4. Phæodidymæ.

**DOTHIDEA** Fr. — Syll. II, p. 639, IX, p. 1043.

1. *Dothidea Cercocarpi* E. et Ev. New west-Amer. Fung. 22 in Erythea Vol. II, 1894. 2323

*Hab.* in foliis *Cercocarpi ledifolii*, California (MAC-CLATCHIE). — Stromata hypophylla, tuberculiformia, 250  $\mu$ . diam. sæpius connata; loculi 130–170  $\mu$ . diam.; asci 75–85  $\times$  18–20; sporidia 18–25  $\times$  8–10, uniseptata, leviter constricta flavo-atra.

2. *Dothidea? aspera* De Not. Grev. XX, p. 107. 2324

*Hab.* in ramis *Ribis aurei*, Genova Ital. bor. — Asci adsunt sed sporidia immatura. Habitus *Dothideæ*. Cfr. Cooke l. c.

3. *Dothidea aloicola* P. Henn. F. Æthiop. I, p. 120. 2325

*Hab.* in foliis vivis *Aloes* in Erythræa (SCHWEINFURTH). — Stromata amphigena, applanato-convexa, 1 cm. diam., atro-sanguinea, dein nigra-nitentia; asci 35–52  $\times$  24–35; sporidia 17–22  $\times$  7–9, constricto-1-septata, ex hyalino fusciscentia.

## Sect. 5. Phragmosporæ.

**MONTAGNELLA** Speg. — Syll. II, p. 646, IX, p. 1045.

1. *Montagnella rugulosa* Cooke Grev. XX, p. 5. — Epiphylla vel hypophylla; stromate tenui suborbiculari 1 mm. diam., atro, depresso, rugoso, loculis polyascis; ascis clavatis; sporidiis lanceolatis, tri-septatis, dilute olivaceis, 20  $\times$  6. 2326

*Hab.* in foliis *Eucalypti*, Victoria Australiæ (MARTIN).

2. *Montagnella acerina* E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 133. 2327

*Hab.* in ramulis emortuis *Aceris spicati*, Ontario, Canada, (DEARNESS). — Perithecia subglobosa, 250,  $\mu$ . diam. in soros 1 mm. diam. dense conferta; asci 60–65  $\times$  6 (p. sp.); sporidia 10–12  $\times$  4–5, 3-septata e flavido-v. olivaceo hyalina.

3. *Montagnella abietina* E. et E. New West Amer. Fun. in Erythea p. 199. 2328

*Hab.* in ramis emortuis *Abietis*, Washington Amer. bor. (PARKER). — Perithecia ovato-globosa, 0,3 mm. diam., stromate obsoleto basi juncta; asci 75–80  $\times$  10; sporidia 15–20  $\times$  5–6, 3-septata, flavido-hyalina.

4. *Montagnella uberata* Sacc. Fung. Abyss. p. 6, t. XX, f. 8. — Stro- 2329

matibus amphigenis, magnis, erumpentibus, convexo-prominentibus, 8-9 mm. lat., 3 mm. alt., nigris, intus e matricis contextu infuscato deformato conflatis, coriaceo-sclerotioideis, epidermide areolatim fissa diu velatis; peritheciis seu loculis in superficie stromatis confertissimis, globoso-hemisphæricis, prominulis, subastomis, perexiguis, 60-120  $\mu$ . d., glabris, ima basi tantum hyphis fuligineis, ramulosis 3  $\mu$  cr. continuis cinctis, contextu perithec. duriusculo obscure celluloso, atro-fuligineo; ascis in quoque perithecio paucis, ex ovato oblongis, subsessilibus, lumine initio sursum angustato, octosporis, 45-50  $\times$  15, raro longioribus; sporidiis subtristichis, fusoides utrinque obtusulis, rectis v. curvulis, 18-22  $\times$  5, 4-guttatis, demum 3-septatis, melleis; paraphysibus concretis.

*Hab.* in foliis vivis Aloes abyssinicae, Gheleb, Erythrææ. — Species omnino distincta, at ob ostiola latentia a genere desciscens.

5. *Montagnella? clavata* Pat. Bull. Soc. Myc. 1893, p. 156.

2330

*Hab.* in foliis Melastomatis, Pululahua Æquatoriae (LAGERHEIM). — Stromata hypophylla, in soros 6-8 mm. latos aggregata, atra, intus alba, stipitata, 0,2-0,3 mm. alta; loculi exserti, pycnidici, sporulis 3  $\times$  1 hyalinis; asci non visi.

**RHOPOGRAPHUS** Nits. — Syll. II, p. 647.

1. *Rhopographus Zeæ* Pat. Bull. Soc. Myc. 1893, p. 156.

2331

*Hab.* in culmis dejectis Maydis, Pululahua Æquatoriae (LAGERHEIM). — Stromata parallela linearia, 0,5-3 mm. long., nigra; loculi 2-5 sphæroidei; asci 100-150  $\times$  20; sporidia fusoides 3-5-septata, medio constricta, 33-40  $\times$  6-7, mellea.

2. *Rhopographus fusariisporus* E. et E. New West-Amer. Fung. p. 23 in Erythea Vol. II, p. 1894.

2332

*Hab.* in culmis emortuis Panicis virgati, Kansas Amer. bor. — (BARTHOLOMEW). — Stromata elliptico-linearia, 0,5-1,5 mm. long. loculi 1-seriati, globosi; asci 65-75  $\times$  7-8; sporidia 3-septata, hyalina, 20-27  $\times$  3,5-4.

*Sect. 6. Dictyosporæ.*

**CURREYA** Sacc. — Syll. II, p. 651, IX, p. 1051.

I. *Eu-Curreya*. Sporidia colorata.

1. *Curreya Harknessii* E. et E. North Am. Pyr. p. 618.

2333

*Hab.* in caulibus emortuis Convolvuli californici in California. — Stromata minuta vix 1 mm. diam. depresso-hemisphæ-

Pyrenomycetæ, Microthyriacæ, Hyalodidymæ, Microthyrium. 379  
rica, pauci-locularia; asci tereti-oblongi; sporidia 12-15  $\times$  5-6, tri-  
septata parceque muriformia, flavo-brunnea.

2. *Curreya pusilla* Karst. et Malbr. in Le Bret. et Niel Champ. Norm. 2334  
V Liste p. 154.

*Hab.* in ligno denudato Sambuci, pr. Rouen Galliæ. — Stromata elongato-ovalia, convexula, atra, 2-3 mm. long.; asci 95-135  $\times$  12; sporidia 18-21  $\times$  7-9, triseptata, septo longit. accedente, dilute melleo-fuliginea.

3. *Curreya ulmicola* Passer. Diagn. funghi nuovi ser. V, n. 20. — 2335  
Stromatibus sparsis vel subgregariis ligno adnatis erumpentibus, subglobosis, fusco-rubiginosis, extus ostioli punctulatis, loculis subcircinatis, fuscis; ascis cylindricis breviter constricto-stipitatis, 8-sporis, 125-160  $\times$  10-12; sporidiis uniseriatis, ellipticis 3-5-septatis, muriformibus, fuscis 20  $\times$  10; paraphysibus filiformibus guttulatis.

*Hab.* in ramis putrescentibus Ulmi montanæ, Vigheffo pr. Parma Ital. bor.

II. *Curreyella* Sacc. Sporidia hyalina.

4. *Curreya Rehmii* Schnabl in Berichte bay. bot. Gesell., 1892, II, 2336  
p. 66.

*Hab.* in ramis emortuis Ribis Grossulariæ et R. rubri pr. München Baviaræ. — Stromata hemisphærica v. oblonga, nigra intus pallida; loculi majusculi; asci 160-200  $\times$  12; sporidia 3-7(plerumque 5)-septata et muriformia, hyalina, 22-24  $\times$  10-11.

Fam. 6. Microthyriacæ Sacc.

Sect. 1. Hyalosporæ.

MYIOCOPRON Speg. — Syll. II, p. 659, IX, p. 1053.

1. *Myiocopron Lycopodii* Rostr. in Beiheft. Bot. Centr. 1893, p. 3. 2337

*Hab.* in foliis Lycopodii complanati, Jutland. — Perithecia minuta, nigra; asci 25  $\times$  5, paraphysati; sporidia oblongata, 6  $\times$  1.5, continua.

Sect. 2. Hyalodidymæ.

MICROTHYRIUM Desm. — Syll. II, p. 662, IX, p. 1055.

1. *Microthyrium Angelicæ* Fautr. et Roum. Rev. Myc. 1892, p. 8. 2338

*Hab.* in caulibus siccis Angelicæ silvestris, Côte-d'Or

- Galliæ. — *Perithecia punctiformia*, applanata; asci 14-20  $\approx$  14 vel 30  $\approx$  15; sporidia 1-septata, hyalina, 10-14  $\approx$  4-5.
2. *Microthyrium Urbani* Bres. Pilze Portor. Sinten. p. 500. 2339  
*Hab.* in ramulis Schæfferiæ frutescentis, Porto Rico (SINTENIS). — *Perithecia* dimidiata, ambitu irregulari, vix radiato, 0,3 mm. lat.; asci 35-45  $\approx$  10-20; sporidia 14-16  $\approx$  6, 1-septata, subclavata, chlorino-hyalina.
3. *Microthyrium acervatum* Speg. Fl. Guar. nonn. n. 116, p. 40. 2340  
*Hab.* ad folia viva Rutacæ spec., Jacan-guazû Amer. merid. *Perithecia* dimidiata 60-70  $\mu$ . diam., dense constipata, plagulas epiphyllas nigras 1-2,5 mm. diam., formantia; asci 30  $\approx$  15; sporidia 10  $\approx$  5, constricto-1-septata, subhyalina.
4. *Microthyrium confluens* Pat. Bull. Boiss. 1895, p. 72. 2341  
*Hab.* in pag. sup. Solani et Cestri, in Æquatoria. — *Perithecia* dimidiata, confluentia, 100-200  $\mu$ . lat., contextu radiante; asci 45  $\approx$  16; sporidia clavulata, 1-septata, 15  $\approx$  6-6, hyalina.
5. *Microthyrium Michelianum* Togn. Seconda Contr. Micol. tosc. p. 7. 2342  
*Hab.* in ramis corticatis Castaneæ vescæ in Etruria. — *Perithecia* dimidiata centro pertusa, 200  $\mu$ . diam.; asci 8-spori, 60  $\approx$  13-15; sporidia 13  $\approx$  5-6, constricto-1-septata, plurinucleata, hyalina.
6. *Microthyrium crustaceum* Pat. Bull. Soc. Myc. 1893, p. 157. 2343  
*Hab.* in pag. sup. foliorum Filicum, Milegalli Æquatoriæ (LAGERHEIM). — *Perithecia* dimidiata, rugosa, nigra, plagas ambitu radiantes, 0,5  $\approx$  1 mm. lat., formantia; asci 25-30  $\approx$  10; sporidia clavata, 8-10  $\approx$  2-3, 1-septata, hyalina.

**CLYPEOLUM** Speg. — Syll. I, p. II, p. 667, IX, p. 1061.

1. *Clypeolum circinans* Pat. Bull. Soc. Myc. 1893, p. 158. 2344  
*Hab.* in foliis Asclepiadacæ ejusdam, S. Jorge Æquatoriæ (LAGERHEIM). — *Perithecia* epiphylla, dimidiata, circinantia, 300  $\mu$ . diam.; asci 40  $\approx$  16; sporidia ovata, 1-septata, 15  $\approx$  5, hyalina.
2. *Clypeolum dissiliens* Cooke Grev. XX, p. 91. — *Peritheciis* sparsis, superficialibus, sæpe gregariis, macula nulla insidentibus, lenticularibus, glaberrimis, atris, nitidis  $\frac{1}{2}$  mm. carbonaceis, astomis; ascis subclavatis, octosporis; sporidiis fusiformibus, uniseptatis, medio secentibus, hyalinis, intus granulatis vel nucleolatis, 70-80  $\approx$  8  $\mu$ . 2345  
*Hab.* in foliis coriaceis in Brasilia (GLAZIOU).
3. *Clypeolum amazonicum* Cooke et Massee Grev. XXI, p. 76. 2346  
*Hab.* in foliis coriaceis dejectis, Maribitanas Brasiliæ (SPRUCE).



Pyrenomycetæ, Microthyriacæ, Phragmosporæ, Micropeltis. 381  
— Perithecia epiphylla, dimidiata, 300  $\mu$ . diam.; asci cylindracei;  
sporidia 15-18  $\times$  3-5, 1-septata, hyalina.

### Sect. 3. Phædidymæ.

**SEYNESIA** Sacc. — Syll. II, p. 668, IX, p. 1064.

1. *Seynesia? nebulosa* Speg. F. Guar. nonn. n. 117, p. 41. 2347

*Hab.* ad folia viva *Myrsines*, Caa-Guazú Amer. austr. —  
*Perithecia* dimidiata, atra, 120-150  $\mu$ . diam., margine fimbriata;  
asci 70-80  $\times$  12-14; sporidia 16-18  $\times$  6-7, constricto-1-septata, fu-  
liginea

### Sect. 4. Phragmosporæ.

**MICROPELTIS** Mont. — Syll. II, p. 669, IX, p. 1069.

1. *Micropeltis Flageoletii* Sacc. Grev. XXI, p. 67, t. 184, f. 8. — My- 2348

celio, filiformi repente tenuissimo pallido; peritheciis sparsis am-  
phigenis, dimidiatis, scutiformibus, nigris, 300  $\mu$ . diam., subastomis  
contextu radiatim celluloso, margine fimbriato; ascis fasciculatis,  
fusoideis, utrinque obtusulis, octosporis, aparaphysatis, 50-60  $\times$   
14-16; sporidiis fusoideis sæpe curvulis, utrinque obtusulis, con-  
strictulo-3-septatis, 18-21  $\times$  5-6, hyalinis.

*Hab.* in foliis vivis *Hederæ Helicis* et *Ilicis Aquifolii*,  
Rigny Galliæ (FLAGEOLET).

2. *Micropeltis Blyttii* Rostr. Bidr. Ascom. Dovr. p. 6. 2349

*Hab.* in foliis *Andromedæ hypnoidis*, Dovre Norvegiæ. —  
*Perithecia* dimidiata, scutata, orbicularia, margine fimbriata, cen-  
tro perforata, contextu eximie radiato; asci 50  $\times$  12-13; sporidia  
triseptata, 32-34  $\times$  2,5-4, hyalina.

3. *Micropeltis carniolica* Rehm Hedw. 1892, p. 307. 2350

*Hab.* in foliis vivis *Pirolæ rotundifoliæ* in Carniolia (S.  
Ровис). — *Perithecia* epiphylla, hemisphærica, dimidiata, 100-250  
 $\mu$ . diam.; asci 36-45  $\times$  15; sporidia 18-22  $\times$  5, 3-septata, constri-  
ctula hyalina.

4. *Micropeltis Oleæ* Togn. Seconda Contr. Micol. tosc. p. 8. 2351

*Hab.* in ramulis corticatis *Oleæ europææ* in Etruria. — *Pe-  
rithecia* dimidiato-scutata, 300  $\mu$ . diam.; asci 8-spori, 45-55  $\times$  12;  
sporidia subspiraliter conglobata, falcata, 27-29  $\times$  4-5, pluriguttata,  
3-5-septata, hyalina.

5. *Micropeltis Sprucei* (Cooke) Sacc. *Microthyrium Sprucei* Cooke 2352  
et M. Grev. XXI, p. 76.

*Hab.* in foliis « Arara-apoku », St. Gabriel Brasiliæ (SPRUCE).  
— Perithecia epiphylla, scutata, margine fimbriata 0,5 mm. diam.;  
asci elliptico-clavati; sporidia fusioidea, 3-5-septata, 28-32  $\times$  8-9,  
hyalina.

6. *Micropeltis vagabunda* Speg. F. Guar. nonn. n. 126, p. 44. 2353

*Hab.* in foliis vivis *Aspidospermæ Quebrachii* pr. Ya-  
guaron Amer. merid. — Perithecia amphigena, dimidiata 100-120  
 $\mu$ . diam., margine subintegra; asci 35-40  $\times$  14-16; sporidia 14-18  
 $\times$  3-5, 3-septata, hyalina.

7. *Micropeltis Marattiae* P. Henn. Hedw. 1895, p. 13. 2354

*Hab.* in pag. inf. foliorum *Marattiae salicifoliae*, Natal  
Africæ austr. (BAUR). — Perithecia punctiformia, pulvinata; asci  
60-70  $\times$  10-14; sporidia 27-35  $\times$  3-4, pluriseptata, hyalina.

8. *Micropeltis?* *Balansæ* Speg. F. Guar. nonn. n. 127, p. 44. 2355

*Hab.* ad folia viva plantæ ignotæ, Caa-Guazû Amer. merid.  
— Perithecia amphigena, dimidiata, opaca, 100-120  $\mu$ . diam., mar-  
gine subintegra; asci 35-50  $\times$  22-25; sporidia 18-24  $\times$  5-6, hyalina,  
5-7-septata, loculo centrali subinde longit. divisio.

## Fam. 7. Lophiostomacæ Sacc.

### Sect. 1. Phæodidymæ.

**SCHIZOSTOMA** Ces. et De Not. — Syll. II, p. 673, IX, p. 1074.

#### I. *Eu-Schizostoma*. Perithecia glabra.

1. *Schizostoma hysterioides* E. et E. New sp. North Amer. Fung. 2356  
in Proceed. Acad. S. N. Philad. 1893, p. 132 (*Lophiosphæra*).

*Hab.* in ramis emortuis *Caryæ*, Louisiana Amer. bor. (LAN-  
GLOIS). — Perithecia hemisphærica 0,7 mm. diam., ostiolo lineari  
compresso, subinde hysterioides; asci 55-60  $\times$  8 (p. sp.); sporidia  
16-18  $\times$  4-4,5, constricto-1-septata, pallide flavido-brunnea.

#### II. *Baccarinia* Sacc. \*) Perithecia albo-tomentosa.

1. *Schizostoma ovinum* Ell. et Ev. Bull. Univ. Jowa 1893, p. 403 2357  
(*Lophiostoma*).

\*) In honorem P. BACCARINI, in universitate catinensi botanices professore  
et de mycologia romana et neapolitana bene meriti.

*Hab.* in truncis, Castillo viejo Amer. centr. (SMITH). — Perithecia subglobosa, superficialia, albo-tomentoso-squamosa excepto ostiolo nudo, compresso-elliptico, prominente rimoso; asci 60 ~ 10; sporidia 15-20 ~ 4-5, constricto-1-septata, hyalina demum pallide brunnea. Habitus fere *Lasiosphæriæ ovineæ*.

## Sect. 2. Hyalodidymæ.

**LOPHIOSPHÆRA** Trev. — Syll. II, p. 675, IX, p. 1075.

1. *Lophiosphæra gloniospora* E. et E. New sp. North Amer. Fung. 2358  
in Proceed. Acad. S. N. Philad. 1893, p. 132.

*Hab.* in ramis decorticatis Salicis, Montana Amer. bor. (FITCH). Perithecia 0,7 mm. diam., ostiolo compresso, minuto; asci 100-110 ~ 10-12; sporidia 12-16 ~ 6-7, constricto-1-septata, hyalina.

2. *Lophiosphæra fluviatilis* E. et E. New sp. North Amer. Fung. in 2359  
Proceed. Acad. S. N. Philad. 1893, p. 133.

*Hab.* in ramis decorticatis salicinis (?), Montana Amer. bor. (FITCH). — Perithecia 0,3-0,5 mm. diam., ostiolo compresso, tenui, vario; asci 75-80 ~ 12; sporidia 20-23 ~ 5-6, constricto-1-septata, hyalina.

3. *Lophiosphæra aspera* Ell. et Ev. Proc. Acad. Phil. 1894, p. 332. 2360

*Hab.* in cortice Ulmi americanæ, Kansas (BARTHOLOMEW). — Perithecia 400-450  $\mu$ . alt., 330  $\mu$ . lat., ostiolo angusto, compresso; asci 90-100 ~ 12; sporidia 18-21 ~ 7-8, constricto-1-septata, flavido-hyalina.

## Sect. 4. Phæophragmiæ.

**LOPHIOSTOMA** (Fr.) Ces. et De Not. — Syll. II, p. 689, IX, p. 1083.

1. *Lophiostoma Thujæ* E. et E. North Am. Pyr. p. 226. 2361

*Hab.* in foliis Thujæ occidentalis subemortuis, New York et Canada. — Perithecia 0,3-0,5 mm. lat., ostiolo compresso, angusto; asci 50-70 ~ 12-15; sporidia 14-16 ~ 3-4, 3-septata, flavido-brunnea.

2. *Lophiostoma clavulatum* Passer. Diagn. funghi nuovi V, n. 21. — 2362

Peritheciis sparsis vel subgregariis, subcutaneis, globosis, atris, ostiolo compresso, lineari erumpentibus; ascis clavatis, paraphysibus filiformibus tenuissimis stipatis, 8-sporis, 70-85 ~ 10-12; sporidiis subdistichis, clavulatis, deorsum attenuato-acutis, superne rotundatis, primo 1 septatis, dein 3-septatis, non constrictis, loculis

384 Pyrenomycetæ, Lophiostomacæ, Dictyosporæ, Lophidium.  
nunquam guttulis, junioribus flavis, tandem fusciscentibus, 18-20 = 5-6.

*Hab.* in ramulis siccis Spartii juncei, Tabiano pr. Parma Ital. bor. — A *Lophiostomate quadrinucleato* et *L. rhopaloides* recedit sporidiis paulo minoribus non guttulis et a *L. Spartii* Nitsch. sporidiis nunquam 5-septatis et eorum forma.

3. *Lophiostoma speciosum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 332. 2363

*Hab.* in cortice Fraxini viridis Kansas Amer. bor. (BARTHOLOMEW). — Perithecia globosa 0,7 mm. diam., ostiolo compresso, deciduo; asci 150-200 = 22-25; sporidia 40-55 = 13-16, olivaceo-brunnea, 10-11-septata.

### Sect. 5. Dictyosporæ.

**LOPHIDIUM** Sacc. — Syll. II, p. 710, IX, p. 1091.

1. *Lophidium confertum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 334. 2361

*Hab.* in ramis decorticatis Fraxini viridis, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia conica, 300-400  $\mu$ . diam., ostiolo subcompresso, apice rimoso; asci 100-110 = 12-15; sporidia 12-15 = 10-12, flavido-brunnea, 3-septato-muriformia.

2. *Lophidium nitidum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 333. — 2365

*Hab.* in sarmentis emortuis Vitis, Nuttallburg, Virginia (NUTTALL). — Perithecia 200-250  $\mu$ . diam., atro-nitida, ostiolo compresso, tenui; asci 100 = 10-12; sporidia 5-7-septato-muriformia, flavo-brunnea, 19-22 = 8-10.

3. *Lophidium purpurascens* Ell. et Ev. Proc. Acad. Phil. 1894, p. 333. 2366

*Hab.* in charta vetusta dejecta, Michigan Amer. bor. — Perithecia maculis purpureiscentibus inserta, 0,5 mm. diam., ostiolo obtuso compresso; asci 100-150 = 15-20; sporidia 22-25 = 8-10, olivaceo-brunnea, 7-10-septata parceque muriformia.

4. *Lophidium pachystomum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 333. 2367

*Hab.* in cortice Populi moniliferæ, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia depresso-globosa 0,7-1 mm. diam., ostiolo cylindraceo modice compresso 0,2-0,5 mm. long.; asci 110-120 = 18-22; sporidia 27-50 = 12-15, atro-brunnea, 6-12-septato-muriformia.

Fam. 7. *Coryneliaceæ* Sacc. — Syll. IX, p. 1073.

**CORYNELIELLA** Hariot et Karst. Rev. Mycol. 1890, p. 128 (Etym. a *Corynelia*, cui affinis). — Perithecia lageniformia, coriacea, atra, in collum apice infundibuliformiter expansum desinentia, carbonacea. Asci cylindracei, octospori. Sporidia ellipsoidea, 3-septata, dilute fuliginea. Paraphyses filiformes.

1. *Coryneliella consimilis* Har. et Karst. l. c. — Peritheciis solitariis 2367  
v. caespitoso-gregariis, basi matrice insculptis, carbonaceis, fragilibus, teretibus, glabris, atris, usque ad 1 mm. alt., primo pertusis, dein ore ampliato apertis, intus demum in pulverem fatiscentibus; ascis cylindraceis, octosporis; sporidiis ellipsoideis, 3-septatis, dilute fuligineis, 14-16  $\approx$  8-10; paraphysibus 0,5  $\mu$ . cr.

*Hab.* in insula Mauritius Africæ.

Fam. 8. *Hemihysteriaceæ* Speg.

**HYSTEROSTOMELLA** Speg. — Syll. IX, p. 1094.

1. *Hysterostomella andina* Pat. Bull. Boiss. 1895, p. 73, t. II, fig. 4. 2368

*Hab.* in pag. sup. foliorum *Filicium*, Milegalli Æquatoriæ. — Stromata dimidiata, centro adfixa, sublenticularia, ambitu perithecigera, perithecia elongata semel vel bis concentrica, rimam circularem formantia; asci 50  $\approx$  20; sporidia brunnea, inæqualiter, 1-septata, 15  $\approx$  5.

Fam. 9. *Hysteriaceæ* Corda.Sect. 1. *Hyalosporæ*.

**HYPODERMELLA** Tubeuf, Bot. Centralbl. 1895, I, p. 48 (Etym. ab *Hypodermate* cui analogum genus). — Perithecia atra, nitida, longitrorsum dehiscencia. Asci cylindracei, subsessiles, 4-spori. Sporidia continua, lacrimæformia, muco hyalino obducta.

1. *Hypodermella Laricis* Tubeuf l. c. 2369

*Hab.* in foliis *Laricis*, cui certe noxia, Semmering Austriæ, Asci 110  $\mu$ . longi; sporidia 66 - 16, hyalina.

2. *Hypodermella sulcigena* (Link) Tubeuf l. c. *Lophodermium sul-* 2370  
*cigenum* (Link) Rostr. — *Hypodermium* Link — Syll. III, p. 729.

*Hab.* in foliis *Pini montanæ* et *P. silvestris* hinc inde.

## Sect. 2. Hyalodidymæ.

**AULOGRAPHUM** Lib. — Syll. II, p. 727. IX, p. 1101.

1. *Aulographum gracile* Ell. et Mart. North Am. Pyr. p. 678. 2371

*Hab.* in foliis *Quercus aquaticæ*, Texas Amer. bor. (RAVENEL). — *Perithecia* subramosa, linearia 1 mm. long., 60-70  $\mu$ . lat.; asci 20-25  $\approx$  10-12; sporidia 7-8  $\approx$  3-3,5, 1-septata, hyalina.

2. *Aulographum Quadriæ* Berk. in Grev. vol. 22, p. 15. 2372

*Hab.* in foliis *Quadriæ heterophyllæ*, Chili. — *Perithecia* linearia, prominula, subrecta 0,5 mm. long.; asci crasse clavati; sporidia 8-10  $\approx$  4-5, 1-septata, hyalina.

**GLONIUM** Mühl. — Syll. II, p. 731, IX, p. 1103 \*).

1. *Glonium caryigenum* E. et E. North Am. Pyr. p. 682. 2373

*Hab.* in nucibus dejectis *Caryæ* Newfield N. J. Amer. bor. — *Perithecia* 0,5-1 mm. long., oblonga; asci 70  $\approx$  10-12; sporidia 12-15  $\approx$  5-6, 1-septata, hyalina, septo constrictula.

2. *Glonium betulinum* Rostr. Till. Grönl. Svamp. p. 613. 2374

*Hab.* in ramulis decorticatis *Betulæ odoratæ* in Groenlandia. — *Perithecia* ellipsoidea, atra, 1 mm. longa; asci 100-115  $\approx$  14-16; sporidia 32-38  $\approx$  8-12, constricto-1-septata, 4-guttata, hyalina.

3. *Glonium velatum* E. et E. North Am. Pyr. p. 684. 2375

*Hab.* in lignis putridis, Louisiana Amer. bor. (LANGLOIS). — *Perithecia* 1 mm. long., nigra longit. striata; asci 70-75  $\approx$  8-10; sporidia 20-25  $\approx$  3,5-4,5, 4-nucleata, 1-septata (an demum 3-septata?).

4. *Glonium Eupatorii* (Lasch) Sacc., *Hysterographium* Lasch in Bot. Zeit. 1863, p. 229. 2376

*Hab.* in caulibus *Eupatorii* in Germania. — *Perithecia* erumpentia, oblonga, nigra, dein longitudinaliter aperta, disco albido; asci distincti; sporidia ovalia, 1-septata.

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\*) *Glonii* subgen. *Delphinella* Sacc. Syll, IX, p. 1103, congruit cum gen. *Harlotia* Karst. Syll. IX, p. 672; sed genus hysteriaceum reapse videtur.

## Sect. 3. Phæodidymæ.

**TRYBLIDIUM** Duf. — Syll. II, p. 740, IX, p. 1103.

1. *Tryblidium ohiense* E. et E. New Fung. Proceed. Acad. N. Sc. 2377 Philad. 1893, p. 456.

*Hab.* in lignis putridis, Ohio Amer. bor. (MORGAN). — Perithecia oblongo-elliptica, 1-1,5  $\approx$  0,5-0,7 mm., uni-bistriata; asci 75-80  $\approx$  8-10; sporidia 12-15  $\approx$  4-5, 1-septata, brunnea.

2. *Tryblidium goyazense* P. Henn. Fung. Goyaz. p. 112. 2378

*Hab.* in ramis siccis Goyaz Brasiliæ (E. ULE). — Perithecia oblonga, 2-2,5  $\approx$  1,5-2 mm., atro-brunnea, disco cinnamomeo-pruinoso; asci 180-220  $\approx$  11-15; sporidia 25-28  $\approx$  10-14, brunneo-atra, 1-septata.

**LEMBOSIA** Lév. — Syll. II, p. 741, IX, p. 1104.

1. *Lembosia macrospora* Sacc. et Paol. Myc. Malac. p. 25, t. VII, 2379 fig. 1.

*Hab.* in foliis coriaceis arboris ignotæ, Malacca (SCORTECHINI). — Perithecia hypophylla, dimidiata 0,5-1 mm. lat.; asci 70  $\mu$ . diam.: sporidia 45  $\approx$  21, constricto-1-septata, tandem fuliginea.

2. *Lembosia nobilis* Speg. Fl. Guar. nonn. n. 129, p. 45. 2380

*Hab.* in foliis vivis plantæ ignotæ, Caa-Guazû, Amer. merid. — Perithecia mycelio dense intertexto inserta, ellipsoidea v. trigona, minuta, 150-200  $\approx$  110; asci 24-30  $\approx$  16-20; sporidia 14-16  $\approx$  5-6, 1-septata, fuliginea.

**PARMULARIA** Lév. — Syll. II, p. 662.

1. *Parmularia Styracis* Lév. Henn. Fung. goyaz. p. 111. — Syll. II, 2381 p. 662 (immatura) *Schneepia?* *Arechavaletae* Speg.? — Asci 70-100  $\approx$  12-15; sporidia 14-18  $\approx$  7-8, utrinque obtusa fusco-brunnea, subconstricto-1-septata. In foliis *Styracum* in Brasilia. — var. *minor* Henn. l. c.; asci 45-65  $\approx$  15-18  $\approx$  7-8, fusco-brunnea, ut in typo. In foliis *Styracis* sp., Goyaz Brasiliæ.

## Sect. 4. Phæophragmiæ.

**HYSTERIUM** Todé em. — Syll. II, p. 743, IX, p. 1108.

1. *Hysterium cedrinum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 346. 2382



*Hab.* in ligno emortuo *Thuja occidentalis*, Kansas Amer. bor. — (BARTHOLOMEW). — *Perithecia* anguste elliptica 0,2–0,5 mm. long., nigra, opaca; asci 45–55 = 16–17; sporidia triseptata, tota brunnea, 18–21 = 7–8, 4-nucleata.

2. *Hysterium Citri* Henn. Fung. novoguin. II, p. 39. — *Peritheciis* 2383  
gregariis superficialibus, oblongo-cylindræis, sæpe subcurvulis, elevatis, rima longitudinali percursis, labiis crassis, obtusis, atris, carbonaceo-corneis 1–1,5 mm. long., 0,5–8 mm. lat.; ascis cylindræis, 3–5-sporis; paraphysibus filiformibus; sporidiis monostichis, oblongis utrinque obtusis, primo 1-septatis, flavo-fuscis, multiguttatis, dein 3-septatis, medio subconstrictis, fusco-brunneis v. atro-fuscis 21–26 = 11–13.

*Hab.* ad ramulos emortuos *Citri* sp. in insula Salomonis Buka Oceanicæ (L. KÄRNBACH).

3. *Hysterium Capparidis* B. et C. in Grev. vol. 22, p. 12. 2384

*Hab.* in foliis *Capparidis jamaicensis* in insula Cuba. — *Perithecia* hypophylla, angusta, prominula, nigra, brunneo-pulverulenta; asci cylindræi; sporidia 9–11-septata, brunnea, 36–40 = 6–7.

**TRYBLIDIELLA** Sacc. — Syll. II, p. 757, IX, p. 1110.

1. *Tryblidiella pygmæa* E. et E. New Fung. Proceed. Acad. N. Sc. 2385  
Philad. 451 et Journ. of Myc. VII, p. 131.

*Hab.* in ligno emortuo, Ohio Amer. bor. (MORGAN). — *Perithecia* acute ellipsoidea, nigra, 0,5–0,7 mm. long.; asci 60–75 = 12–15; sporidia 3–4-septata, hyalina, dein brunnea, 20 = 6–7.

**RHYTIDHYSTERIUM** Speg. — Syll. II, p. 759, IX, p. 1111.

1. *Rhytidhysterium Prosopidis* Peck 46 Rep. p. 39. 2386

*Hab.* in ramis emortuis *Prosopidis juliforæ*, Texas Amer. bor. (UNDERWOOD). — *Perithecia* subelliptica v. trigona, nigra, labiis crenulato-costatis; asci 180–200 = 11–12; sporidia triseptata, 20–30 = 9–10, fusca.

### Sect. 5. Hyalophragmiæ.

**GLONIELLA** Sacc. — Syll. II, p. 765, IX, p. 1112.

1. *Gloniella ambigua* Karst. Symb. Myc. Fam. XXX, p. 73.

*Hab.* in ligno vetusto pineo, Mustiala Fennicæ. — *Perithecia* 2387

ovalia, leviuscula, atra 0,5 mm. longa; asci 75-85 × 12-14; sporidia 27-34 × 6, constricto-3-septata, subhyalina.

2. **Gloniella pluriseptata** Karst. et Malbr. in Le Bret. et Niel Champ. 2383  
Norm. V Liste p. 155, fig. 3.

*Hab.* in caulibus siccis *Epilobii hirsuti*, pr. Rouen Galliæ.  
(LETENDRE). — *Perithecia subellipsoidea*, atra, levia; asci 120 × 11-12; sporidia 35-40 × 6, hyalina, 7-10-septata.

## Sect. 6. Phiodictyæ.

**HYSTEROGRAPHIUM** Corda. — Syll. II, p. 776, IX, p. 1119.

1. **Hysterographium kansense** E. et E. New West-Amer. Fung. p. 22 2389  
in *Erythea* Vol. II, 1894.

*Hab.* in cortice *Quercus macrocarpæ*, Kansas Amer. bor.  
(BARTHOLOMEW). — *Perithecia oblonga* 1-1,2 × 0,5 mm. nigra; asci 80-110 × 12-14; sporidia 7-9-septata et muriformia, 25-30 × 8-10, brunnea.

2. **Hysterographium Fraxini** (Pers.) De Not. — Syll. II, p. 776. — \*H. 2390  
**minutulum** Sacc. F. Abyss. p. 7. — *Peritheciis* sparsis, ovatis, minutis, vix 0,5 mm. longis; ascis 150-180 × 18; sporidiis oblongo-fusoideis, utrinque acutiusculis, 33-40 × 15, 7-9-septato-muriformibus, fuligineo-olivaceis.

## Sect. 7. Scolecosporæ.

**HYPODERMA** DC. — Syll. II, p. 784, IX, p. 1123.

1. **Hypoderma tunicatum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 347. 2391

*Hab.* in ramis emortuis *Arctostaphyli nevadensis*, Washington Amer. bor. (SUKSDORF). — *Perithecia oblongo-lanceolata*, 1-3 × 0,7-1 mm. atro-brunnea; asci 150-200 × 18-20; sporidia oblongo-elliptica, 3-septata, 20 × 3,5-4. « Ubi sporidia genuine 3-septata, species atypica videtur ».

2. **Hypoderma Cassandræ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 347. 2392

*Hab.* in ramis emortuis *Cassandræ caliculatæ*, Michigan Amer. bor. (JOHNSON). — *Perithecia elliptico-oblonga*, 1-1,5 × 0,5-0,7 mm. atra; asci 45-60 × 10-12; sporidia oblonga, 10-16 × 4-6, hyalina, continua.

3. **Hypoderma pinicola** Brunch. Nogle norske etc., Zeitschr. für Pa- 2393  
ras. 1894, p. 242.

*Hab.* in foliis *Pini silvestris* in silvis Norvegiæ. — Perithecia in series 1,2-10 mm. longas disposita; asci 8-spori; sporidia clavata, strato mucoso crasso obvoluta. — « An *Hypodermellæ* spec.? ».

4. *Hypoderma Aceris* P. Henn. et Lindau Hedw. 1893, p. 223, t. VIII, 2394 fig. 1.

*Hab.* in foliis *Aceris javanici*, Java. — Perithecia epiphylla, gregaria, circulariter disposita, pulvinata, elliptica, raro confluentia, nigra nitida, rima longit. dehiscentia; asci 60-100  $\approx$  14-20; sporidia clavata, hyalino-fuscidula 21-25  $\approx$  6-8. — « An *Hypodermellæ* species? ».

**LOPHODERMIIUM** Chev. — Syll. II, p. 791, IX, p. 1124.

1. *Lophodermium Sabinæ* Fautr. Rev. mycol. 1891, p. 169.

2395

*Hab.* in foliis *Juniperi Sabinæ*, Côte-d'Or Galliæ. — Perithecia epiphylla, elliptica, applanata, striata; asci fusoidei, 60  $\approx$  8; sporidia filiformia, utrinque acuta, pluriguttulata, 35-42  $\approx$  1.

2. *Lophodermium tumidulum* Sacc. Bomm. Rouss. Contr. Myc. Belg. 2396 V, p. 240.

*Hab.* in foliis emortuis *Scirpi cæspitosi*, Westmalle Belgii. — Perithecia tumidula, nigra, late aperta, disco flavo-virentia; asci 160-180  $\approx$  15; sporidia filiformia, chlorina, asci longitudine.

3. *Lophodermium velatum* Berk. in Grev. Vol. 22, p. 15.

2397

*Hab.* in culmis *Festucæ*, in insula Madera. — Perithecia applanata, nigricantia, 5 mm. long., parallele seriata; asci crasse cylindracei; sporidia 75-80  $\approx$  1,5, contorta, hyalina.

# DISCOMYCETÆ FR. Syll. VIII p. 3, X p. 1.

Fam. 1. Helvellaceæ Sw.

**MORCHELLA** Dill. — Syll. VIII, p. 8, X, p. 1.

1. *Morchella olivæa* Quél. Champ. Jura Suppl. XVIII, pag. 2, t. II, 2398 f. 7 (*Morilla*).

*Hab.* ad terram calcaream lithanthraci mixtam, Jura. — Ascoma 3-6 cm. long., cremeo-olivaceum, costis viridi-olivaceis; sporidia 22-24  $\mu$ . long., hyalina.

2. *Morchella deliciosa* Fr. — Syll. VIII, p. 10. — var. *incarnata* Quél. 2399 Champ. Jura Suppl. XVIII, p. 2, *M. crispa* Krombh. t. V, f. 25-26.

*Hab.* gregatim in pascuis montanis, Jura. — Ascoma pallide incarnatum, costis tomentosis; sporidia 22  $\mu$ . long., hyalina.

**HELVELLA** Linn. — Syll. VIII, p. 17.

1. *Helvella sulcata* Afz. — Syll. VIII, p. 20. — var. *cinerea* Bres. F. 2400 Trid. II, p. 41, t. 147, f. 1.

*Hab.* in nemoribus pr. Trento. — Ascomata griseo-cinerea, ceterum ut in typo.

2. *Helvella Fargesii* Patouill. Journ. de Bot. 1893, p. 344. 2401

*Hab.* ad terram in Thibet (FARGES). — Ascoma fusco-brunneum 1,5-2,5 cm. diam.; stipite 1-4 cm. long.; asci 160-200  $\approx$  16; sporidia 16-18  $\approx$  10-13. Habitus *H. alastica*, sed stipes villosus *H. atræ*.

3. *Helvella Engleriana* Henn. Fung. novoguin. II, p. 40. — Ascomate 2402 libero, planiusculo, repando dein lobato, undulato, plicato, levi, margine reflexo, incarnato (rufo-brunneo in alcohole), usque ad 2 mm. alt. 2-4 mm. lat.; stipite erecto, fistuloso, striato v. sulcato-costato, tomentosulo, pallido usque ad 2 mm. alt. 1 mm. cr., ad basim incrassato; ascis clavatis, brunneolo-hyalinescentibus, obtusis, octosporis 40-63  $\approx$  5-8; sporidiis monostichis ellipsoideis v. ovoidæis, hyalinis, flavescentibus, 5-6  $\approx$  3-4; paraphysibus linearibus apice vix clavatis, interdum bifurcatis 1-2  $\mu$ . cr.

*Hab.* in solo argilloso, Nova Zelandia. — Habitus *H. Ehippii* v. *H. Monachellæ*.

4. *Helvella alpestris* Boud. Bull. Soc. Myc. 1895, p. 28, t. II, fig. II. 2403

*Hab.* ad terram in pratis alpinis, Grand St. Bernard. — Ascomata stipitata, 1,5 cm. alt, tota atra margine albicante, stipite quoque atro; asci 300  $\approx$  16-20; sporidia 22-25  $\approx$  14-15, hyalina 1-guttata.

**MITRULA** Fr. — Syll. VIII, p. 32, X, p. 1.

1. *Mitrlula bicolor* Pat. Journ. de Bot. 1893, p. 344. 2404

*Hab.* ad terram in Thibet (FARGES). — Clavula 4 mm. lat., 2 cm. long., compressa, brunnea; stipite 2 mm. cr., canaliculato, fusco; asci 110-120  $\approx$  12-15; sporidia 10-12  $\approx$  6, continua, hyalina.

2. *Mitrlula Rehmii* Bres. F. Trid. II, p. 41, t. 147, f. 2. 2405

*Hab.* in silvis coniferis Tridentinis in *Hyppo Schreberi* parasitica. — Ascoma morchelloideum 3,5-4,5 mm. alt. et 3 mm. cr., carneo-fulvum; stipite albo-flavo, 2-3 cm., long.; asci 70-80  $\approx$  6-8; sporidia 8-13  $\approx$  2,5-3; hyalina, demum 1-septata. *M. muscicolæ* proxima.

**MICROGLOSSUM** Sacc. — Syll. VIII, p. 39, X, p. 2.

1. *Microglossum arenarium* Rostr. in Beihefte Bot. Centralbl. 1893, 2406 pag. 3.

*Hab.* in arenosis Daniæ. — Ascoma 2-4 cm. alt., 0,5-2 cm. cr. clavatum, nigrum, stipite olivaceo; asci 100  $\approx$  12-13; sporidia continua, hyalina, 25-30  $\approx$  4-6, guttulata; paraphyses brunneæ.

**CUDONIELLA** Sacc. — Syll. VIII, p. 41.

1. *Cudoniella fructigena* Rostr. Till. Grönl. Svamp. p. 605. 2407

*Hab.* in fructibus Archangelicæ officinalis in Groenlandia. — Ascoma hemisphæricum, ochraceum, 1 mm. diam., stipite 1 cm. alt. 0,5 mm. cr. albo; asci 200-220  $\approx$  6-7; sporidia 25-45  $\approx$  5, 1-3-septata, hyalina.

**LEPTOGLOSSUM** Cooke. — Syll. VIII, p. 47.

1. *Leptoglossum littorale* Rostr. in Beihefte Bot. Centralbl. 1893, p. 3. 2408

*Hab.* in littoribus arenosis Daniæ. — Ascoma 0,5-1,5 cm. alt., 0,2-0,5 cm. cr. clavatum, nigrum; asci 100-120  $\approx$  16-18; sporidia 50-60  $\approx$  5, hyalina, 1-5-(sæpius 3-) locularia; paraphyses brunneæ.

**VIBRISSEA** Fr. — Syll. VIII, p. 51.

1. *Vibrissea truncorum* Fr. — Syll. VIII, p. 51. — var. *albipes* Peck 2409  
44 Rep. p. 37.

*Hab.* in montibus Adirondack Amer. bor. — Stipes brevis, crassus, albus, cetera speciei.

*Fam. 2. Pezizacæ Fr.*

*Sect. 1. Hyalosporæ.*

**GEOPYXIS** Pers. — Syll. VIII, p. 63, X, p. 3.

1. *Geopyxis Bloxami* Masee, Grev. XXII, 98.

2410

*Hab.* ad terram, Oxford Britannicæ (BAXTER). — Ascoma 0,7–1,5 cm. lat., hemisphæricum, stipite 0,5–1 cm. long.; asci cylindrici; sporidia 34–38  $\approx$  8–9. Affinis *G. coccineæ* sed glabra et diverse colorata.

2. *Geopyxis Hicksii* Peck 46 Rep. p. 38.

2411

*Hab.* ad terram, Michigan Amer. bor. (Hicks). — Ascoma infundibuliforme, brunneum, 12 mm. lat.; stipes 16–24 mm. long.; asci 150–200  $\approx$  12; sporidia 12–15  $\approx$  7–10.

**PEZIZA** Dill. — Syll. VIII, p. 73, X, p. 3.

1. *Peziza infusata* Qué. Champ. Jura Suppl. XVIII, p. 2, t. II, f. 6. 2412

*Hab.* ad terram ustam, pr. Marseille, Nizza, Verdun Gallicæ. — Ascomata cupularia, glabra, alba vel citrino-tincta, disco læte brunneo; sporidia ellipsoidea 12–18  $\mu$ . long., verruculosa, 2-guttata.

2. *Peziza elachroa* Berk. et Curt. in Cooke Mycogr. p. 160, f. 274, 2413  
(sub nom. *olivascens*).

*Hab.* ad terram inter folia in ins. Cuba. — Ascoma pallido-olivaceum, 6–7 mm. lat.; sporidia 18  $\approx$  8.

3. *Peziza chrysopela* Cooke Mycogr. p. 156, fig. 266.

2414

*Hab.* ad terram in Carolina inf. Amer. bor. — Ascoma aurantio-flavum 12–14 mm. lat., extus pallidum; sporidia 12  $\approx$  6.

4. *Peziza edulis* Speg. Fl. Guar. nonn. n. 132, p. 46.

2415

*Hab.* ad terram inter folia putrida, Guarapi Amer. austr. — Ascoma applanatum, aurantium, 2–5 cm. diam.; asci 200–220  $\approx$  15–16; sporidia 18–34  $\approx$  12–13, hyalina; species edulis.

5. *Peziza lætissima* Karst. in Hedw. 1891, p. 298.

2416

*Hab.* ad folia putrida et humum in hortis, Mustiala Fennicæ. — Ascoma cupulato-explanatum, miniato-aurantiacum, 3 cm. lat.; asci 285  $\approx$  15; sporidia 18–21  $\approx$  12, subscabra.

6. *Peziza Dudleyi* Peck 47 Rep. p. 23.

2417

*Hab.* ad terram et fragmenta lignea, Ithaca Amer. bor. (DADLEY).— Ascoma 5 cm. lat., læte flavum vel croceum; asci cylindrici; sporidia 25-30  $\times$  12-15. *Pez. aurantiæ* et *P. inequali* proxima.7. *Peziza Braunii* P. Henn. F. Afr. II, p. 8.

2418

*Hab.* ad ligna, Madagascar Africæ (J. BRAUN). — Ascomata extus flavescentia, 2 cm. lat., disco vinoso; asci 250-315  $\times$  10-15; sporidia subglobosa vel elipsoidea, 8-11  $\times$  8-10, subhyalina.8. *Peziza rivularis* Clem. Bot. Surv. Nebr. Rep. III, 1893, p. 8.

2419

*Hab.* ad ramos aqua immersos, Meadville Nebraska Amer. bor.— Ascoma explanato-concavum, intus umbrinum; asci 250  $\times$  20; sporidia 25-26  $\times$  15-16, 2-guttata.9. *Peziza Büttneri* P. Henn. F. Afr. II, p. 9.

2420

*Hab.* ad ligna, Togo Africæ (BÜTTNER). — Ascoma concavum, rufo-brunneum, extus pallidum, 2 cm. diam.; asci 200-280  $\times$  15-18; sporidia 22-26  $\times$  12-15, 2-guttata, levia, hyalina.10. *Peziza rubrans* Quél. Rev. Myc. 1892, p. 65, t. 126, f. 5.

2421

*Hab.* in ramis emortuis Alni (?), pr. Bordeaux Gallicæ. —

Ascoma subhemisphæricum, 1 cm. lat., album dein incarnatum, disco rubro, nitenti; sporidia elliptico-lanceolata, 2-3-guttata.

11. *Peziza crenata* Rostr. Oest-Grönl. Svamp. p. 13.

2422

*Hab.* ad terram Groenlandiæ. — Ascomata 5-7 mm. diam., cinerea, furfuracea, disco ochraceo, margine crenato; asci 220  $\times$  12-14; sporidia 18-20  $\times$  8-10, hyalina.12. *Peziza deerrata* Karst. Monogr. p. 119, Hedw. 1891, p. 299. Huc 2423spectant *Humaria deerrata* (Karst.) Sacc. Syll. VIII, p. 140, et *H. Schröteri* Cooke, Syll. VIII, p. 141.13. *Peziza myceticola* Berk. et Curt. U. S. Fungi (in fungis putri- 2424dis) et *Peziza porinata* Cooke (in Polyporis putrescentibus), mihi ignotæ, teste Cooke Grev. XX, p. 15, sunt natura *Dacryomycetis*.

## OTIDEA Pers. — Syll. VIII, p. 94, X, p. 4.

1. *Otidea*? *Sparassis* Quél. Rev. Myc. 1892, p. 65, t. 126, f. 4.

2425

*Hab.* ad humum in silvis Gallicæ. — Ascomata sparassioidec-incisa, laciniata, cremeo-grisea; sporidia ellipsoidea, hyalina, 1-guttulata. Dubia species.2. *Otidea neglecta* Massee Grev. XXII, p. 66, *Otidea Auricula* Rehm, 2426Sacc. Syll. VIII, p. 95, non Cooke — Secundum Massee l. c. hæc differt a genuina *Otidea Auricula* (Schæff.) Masse l. c. excipulo hyphis septatis intertextis extus parallele seriatis discoque brunneo,



dum in hac postrema discus est e carneo flavido-brunneus et excipulum parenchymaticum cellulis majusculis plerumque elongato-hexagonis.

*Hab.* utraque species ad terram in Britannia, Gallia, Germania, Helvetia.

**DISCINA** Fr. — Syll. VIII, p. 99, X, p. 4.

1. *Discina pululahuana* Pat. Bull. Soc. Myc. 1893, p. 145.

2427

*Hab.* ad terram, ad craterem Pululahuæ Æquatoris. — Ascomata cupulata, 10 mm. lat., ochraceo-pallida, brevissime stipitata, disco carneo-ochraceo; asci 500  $\approx$  15; sporidia 35-42  $\approx$  12-16, 2-pluriguttulata, utrinque obtuse mucronata.

2. *Discina mongolica* Karst. Hedw. 1892, p. 39.

2428

*Hab.* ad terram arenosam, in Mongolia. — Ascomata patellata, fuliginosa, extus pallidiora, 13 mm. lat.; asci tereti-clavati, 13-15  $\mu$ . cr.; sporidia 22-26  $\approx$  11-13, levia.

3. *Discina maturescens* (Boud.) Sacc. *Disciotis* Boud. Bull. Soc. Myc. 1891, p. 214, t. XV, f. 1.

2429

*Hab.* ad terram argillosam, prope Nizza (BARLA). — Ascomata cupulata, disco badio-fusco; asci 400  $\approx$  20-23; sporidia 22-25  $\approx$  12-13, subhyalina, levia.

4. *Discina corticalis* Karst. in Hedw. 1891, p. 301 (*Discinella*).

2430

*Hab.* ad truncos corticatos Lonicerae tataricae, in horto Mustiala Fenniae. — Ascomata plano-concava, pallida, disco rufo-pallido 3 mm. lat.; asci 135  $\approx$  12; sporidia 12-13  $\approx$  8. *Discinella* Karst. l. c. a typo *Discinae* differt in primis ascomatibus minoribus.

**GALACTINIA** Cooke. — Syll. VIII, p. 106.

1. *Galactinia Michellii* Boud. Bull. Soc. Myc. 1891, p. 215, t. XV, fig. II.

2431

*Hab.* in argillosis silvarum, pr. Parisios. — Ascomata lactescentia, cupularia, læte fulva, 3-4 cm. lat., disco rubro-purpureo vel rubro-fulvo; asci 240-280  $\approx$  15; sporidia 14-15  $\approx$  7-8, hyalino-fulvida, 2-guttata, verruculosa.

**PYRONEMA** Carus — Syll. VIII, p. 107.

1. *Pyronema lætissimum* Schröt. Pilz. Krypt. Fl. Schles., III, p. 34.

2432

*Hab.* ad terram, in Silesia. — Ascomata 1-1,5 mm. lat., læte aurantio-rubra, subiculo albo insidentia; asci 220-250  $\approx$  11-13; sporidia 20-22  $\approx$  9-10, levia.

2. *Pyronema tapesioides* Rehm Disc. p. 963.

2433

*Hab.* in stercore humano prope Berlin Germaniæ et in terra stercoreata Italiæ. — Flavum, in sicco aurantio-rubrum, 0,3–1 mm. lat., mycelio effuso, ramoso, hyalino insidens; asci 180–200  $\times$  12; sporidia 14–17  $\times$  7–8, levia, hyalina.

3. *Pyronema collemoides* Rehm Disc. p. 966.

2434

*Hab.* in arenosis montanis Saxoniz. — Aurantio-rubrum, 1–4 mm. lat., mycelio hyalino, denso insidens; asci 180–200  $\times$  10–12; sporidia 18–20  $\times$  9.

4. *Pyronema Wagnerianum* Rehm Disc. p. 967.

2435

*Hab.* in fimo Capreolorum et Giraffæ in Germania. — Flavo-brunneum vel atro rubescens, 1–4 mm. lat., mycelio hyalino insidens; asci 100–150  $\times$  10–12; sporidia 12–15  $\times$  6–7, levia, hyalina.

**BARLÆA** Sacc. — Syll. VIII, p. 111, X, p. 5.1. *Barlæa lacunosa* Ell. et Ev. Proc. Acad. Phil. 1894, p. 347.

2436

*Hab.* ad cortices, Newfoundland seu Terranova Amer. bor. — Ascomata aurantiaca 0,5–1,5 cm. lat., disco albo-flavido, profunde lacunoso; asci 70–90  $\mu$ . long. p. sp.; sporidia globosa, hyalina, 8–10  $\mu$ . diam.

2. *Barlæa anthracina* Cooke Mycogr. p. 235, fig. 396, *Plicaria carbonaria* Fuckel Symb. myc. p. 326, fig. 35.

2437

*Hab.* ad carbones udos in silvis Germaniæ. — Ascoma fuscum 2–4 mm. lat.; sporidia 12  $\mu$ . diam., verruculosus ex hyalino fuscidula. Contextus fere bulgariaceus.

**HUMARIA** Fr. — Syll. VIII, p. 118, X, p. 4.1. *Humaria flavula* Quéll. Champ. Jura Suppl. XVIII, p. 1, t. II, f. 3.

2438

*Hab.* ad terram argillosam in silvis Jura. — Ascomata discoideo-hemisphærica 1–2 mm. diam., straminea, disco flavo; sporidia 10–12  $\mu$ . long., ellipsoidea, verruculosa.

2. *Humaria flavo-rubens* Rehm Disc. p. 960.

2439

*Hab.* ad terram udam umbrosam prope Berlin. — Flavo-rubescens dein brunnea 2–4 mm. lat.; asci 180–200  $\times$  9–10; sporidia 15–17  $\times$  7–8, hyalina, rugulosa.

3. *Humaria subhepatica* Rehm Disc. p. 948.

2440

*Hab.* ad terram prope Berlin (SYDOW). — Viridi-brunnea, 2–4 mm. lat. disco aurantiaco; asci 150–200  $\times$  20; sporidia 18–20  $\times$  9–10, hyalina, levia.

4. *Humaria leucolomoides* Rehm Disc. p. 933.

2441

*Hab.* ad terram silvaticam in Germaniæ pluribus locis. — Aurantiaco-rubra, 10-15 mm. diam.; asci 150-200  $\approx$  15-18; sporidia 18-21  $\approx$  10-12, hyalina.

5. *Humaria granulosa* Schum. Saell. II, p. 415, Cooke Myc. p. 232, f. 391. 2442

*Hab.* ad terram in silvis Galliæ et Scandinaviæ. — Ascoma umbrinum extus pallidius, 10-12 mm. diam.; sporidia 16-20  $\approx$  8-10. — var. *Boudieri* Cooke l. c. fig. 390. Ascoma viridi-flavum 1-2 cm. lat.; sporidia 15-20  $\approx$  8. Ad terram hortorum in Gallia.

6. *Humaria oryzetorum* Pat. Bull. Soc. Myc. 1892, p. 50. 2443

*Hab.* ad terram inter algas, Tonkin (BON). — Ascomata cupulata, glabra, sessilia, 1-2 mm. lat, disco fusco-rubro; asci 210  $\approx$  15; sporidia 18-20  $\approx$  10, hyalina, levia.

7. *Humaria Potonini* Karst. Hedw. 1892, p. 39. 2444

*Hab.* ad terram arenosam, in Mongolia (POTONIN). — Ascomata subhemisphærica brunneo-setosa, 4-7 mm. lat., disco carneo-subaurantiaco; asci 16-22  $\mu$ . cr.; sporidia 20-21  $\approx$  15.

8. *Humaria groënlandica* Rostr. Oest-Grönl. Svamp. p. 13. 2445

*Hab.* ad terram Groenlandiæ. — Ascomata 1,5-2,5 mm. diam., glauco-nigricantia; asci 250  $\approx$  20; sporidia 20-22  $\approx$  15, hyalina, intus brunneola. «An *Phaeopezia*?».

9. *Humaria pictilis* QuéL. Champ. Jura Suppl. XVIII, p. 2, t. II, f. 4. 2446

*Hab.* in stercore humano algis obducto, Lyon Galliæ. — Ascomata hemisphærico-discoidea, 2 mm. diam., carneo-lateritia, olivaceo-marginata, disco roseo; sporidia ellipsoidea 12-14  $\mu$ . long. Forte var. *H. merdarice*.

10. *Humaria Elaphorum* Rehm Disc. p. 945. 2447

*Hab.* in fimo Elaphorum in Saxonia (WAGNER). — Læte flava, 2-4 mm. lat.; asci 150-180  $\approx$  9-10; sporidia 12-15  $\approx$  6-7, hyalina, levia.

11. *Humaria aquatica* (Lam. et DC.) Sacc. *Peziza* Lam. et DC. Fl. fr. II, p. 76, Wettstein Ueb. zwei Ascom. p. 169. 2448

*Hab.* in aquæductibus, in Gallia, Austria et Helvetia. — Ascomata 2-3 mm. diam., e globoso applanata, carnea; asci 340-350  $\approx$  15-17; sporidia 18-20  $\approx$  10-12, hyalina, levia.

12. *Humaria Saccardoi* Cav. Fung. Long. Exs. III, n. 110 et Bot. Centralbl. 1894, I, p. 71. 2449

*Hab.* in ligno carioso putri in horto botanico, Pavia Ital. bor. — Ascomata ex globoso explanata, griseo-violacea, pruinosa, disco sordide violaceo, 5-15 mm. diam.; asci 170-200  $\approx$  8-10; sporidia 18-22  $\approx$  5-6, fusioidea, plasmate interdum contracto.

13. *Humaria novo-zelandica* Henn. Fung. novoguin. II, pag. 39. — 2450

Gregaria; ascomatibus carnoso-ceraceis, brevissime stipitatis, extus ochraceo-tomentosis, disco explanato, fusco-brunneis; stipite brevissimo, crasso, concolori; ascis clavatis, octosporis, hyalinis 140-160  $\approx$  16-19; sporidiis ellipsoideis, hyalinis, monostichis 16-20  $\approx$  8-9; paraphysibus apice incrassatis, clavato-filiformibus, fusciculis.

*Hab.* in caulibus putridis, Nova Zelandia. — Discus 2-3 mm. diam.; stipes vix 0,5 mm. long., 0,5 mm. cr.

14. *Humaria Euphorbiæ* P. Henn. F. Afr. I, p. 369. 2451

*Hab.* in ramis emortuis *Euphorbiæ* Thii in Erythræa (SCHWEINFURTH). — Ascomata cupulato-explanata, incarnata, 2-9 mm. diam., disco aurantio-miniato; asci 21-40  $\approx$  3-4; sporidia 3-5 2-2,5, hyalina, levia.

15. *Humaria Zukalii* Rehm Disc. p. 946. 2452

*Hab.* in charta crassiore, extracto carneo imbuta, Wien Austriæ (ZUKAL). — Rubens vel brunneo-rubens, 2-4 mm. lat.; asci 50  $\approx$  8 p. sp.; sporidia ellipsoidea, hyalina, continua.

**PSILOPEZIA** Berk. — Syll. VIII, p. 152.1. *Psilopezia trachyspora* E. et E. New West Amer. Fung. in Erythraea p. 200. 2453

*Hab.* in lignis putridis, Washington Amer. bor. (PARKER). — Glauco-brunnea, applanata, 0,5-1,5 cm. diam., margine rufo-brunneo; asci 200  $\approx$  18-20; sporidia 18-20  $\approx$  12-14, verrucosa, hyalina.

**SARCOSCPHYA** Fr. ex p. — Syll. VIII, p. 153.1. *Sarcoscypha tenuispora* Cooke et Massee in Grev. vol. 21, p. 121. 2454

*Hab.* ad fragmenta lignea et folia putrida, in Britannia. — Ascomata stipitata 2-3 cm. alt., 2,5 cm. diam., alba, tomentosa, disco pallido; asci cylindrici; sporidia 16-20  $\approx$  4-5, extus granulosa.

**TRICHOSCPHYA** Cooke. — Syll. VIII, p. 161.1. *Trichoscypha Engleriana* P. Henn. F. Afric. I, p. 363 (*Pilocratera*). 2455

*Hab.* in ramis emortuis, Kamerum Africæ. — Ascomata hemisphærico-turbinata, flavo-pruinosa, setosa, 6-20 mm. diam., disco flavo-aurantiaco; stipes 5-20 mm. long.; asci 270-320  $\approx$  17-20; sporidia 27-30  $\approx$  14-17, flavescenti-hyalina, levia.

**LACHNEA** Fr. emend. — Syll. VIII, p. 166, X, p. 5.1. *Lachnea tomentosa* (Karst.) Sacc. *Humaria* (Sepultaria) *tomentosa* Karst. Hedw. 1892, p. 293. 2456

*Hab.* ad terram, in insula Suomen Fennia. — Ascomata subglobosa, fusco-tomentosa, 1-2 cm. lat., disco incarnato; asci 165  $\approx$  18; sporidia 22-25  $\approx$  11-15, hyalina.

2. *Lachnea nicæensis* (Boud.) Sacc., *Sepultaria nicæensis* Boud. 2457  
Bull. Soc. Myc. 1891, p. 216, t. 15, f. 3.

*Hab.* ad terram arenosam, muscosam, pr. Nizza (BARLA). — Ascomata 2-2,5 cm. lat., fulvo-lanuginosa, disco albido-griseo; asci 350  $\approx$  22-25; sporidia 30-35  $\approx$  16-18.

3. *Lachnea amphidoxa* Rehm in Disc. p. 1048 *Humaria hirtella* f. *minor* Rehm in Hedw. 1882, p. 2. 2458

*Hab.* ad terram, in Helvetia et Germania. — Ascomata 1-3 mm. lat., pilosa, brunneola, disco pallido; asci 200-220  $\approx$  12-15; sporidia 15-20  $\approx$  8-10, hyalina, levia.

4. *Lachnea solisequia* Quél. Champ. Jura Suppl. XVIII, p. 2, t. II, f. 5. 2459

*Hab.* ad terram carboni mixtam in silvis, Jura. — Ascomata 5-15 mm. diam., straminea, fulvo-pilosa, disco croceo-aurantio; sporidia 12-15  $\mu$ . longa, bi-guttata, hyalina, levia.

5. *Lachnea subatra* Rehm Disc. p. 1045. 2460

*Hab.* ad terram arenosam inter muscos, in Germania. — Ascomata 0,3-3 mm. lat., breviter pilosa, brunnea, disco atrobrunnea; asci 180-200  $\approx$  12-15; sporidia 15-18  $\approx$  9-10, hyalina, levia.

6. *Lachnea brunneola* Rehm Disc. p. 1048. 2461

*Hab.* in areis ustis, in Saxonia. — Ascomata 2-5 mm. lat., setosa, castanea; asci 180-200  $\approx$  15; sporidia 25-27  $\approx$  9-10, continua, hyalina.

7. *Lachnea leucothecioides* Rehm Disc. p. 1043. 2462

*Hab.* in areis ustis, in Saxonia. — Ascomata subglobosa, 0-5-1 mm. lat., parce pilosa, brunnea, disco pallido; asci 180-200  $\approx$  10-12; sporidia 12  $\approx$  9, levia, hyalina.

8. *Lachnea albo-badia* (Saut.) Rehm Disc. p. 1050, *Peziza* Saut. Pilze Salz. II, p. 64. 2463

*Hab.* ad terram udam in Salzburg. — Ascomata brunneo-tomentosa, disco albido; asci 210-280  $\approx$  19-26; sporidia 23-26  $\approx$  14-17, hyalina, levia.

9. *Lachnea ampezzana* Rehm Disc. p. 1043. 2464

*Hab.* ad terram calcaream, Ampezzo Ital. bor. — Ascomata 2-5 mm. lat., brunneo-rubra, pilosa, disco roseo-griseo; asci 180-250  $\approx$  12-15; sporidia 18-21  $\approx$  9-10, hyalina, levia.

10. *Lachnea Lojkæana* Rehm Disc. p. 1045, nec *Neottiella luteopallens* (Cooke) Sacc., teste Rehm. 2465

*Hab.* in hortis, Zürich Helvetiæ. — Ascomata fusciscenti-pilosa, disco sulphureo v. flavido; asci 150-180  $\approx$  12-14; sporidia 14-18  $\approx$  8-10, hyalina, levia.

11. *Lachnea cervicolor* E. et E. New Sp. North Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 145. 2466

*Hab.* ad ligna putrescentia, Canada (MACOUN). — Ascomata 4-10 cm. diam., atro-ferrugineo-pilosa, disco hepatico; asci 150-200  $\approx$  15; sporidia 18-22  $\approx$  11-12, hyalina, sublevia.

12. *Lachnea pseudo-trechispora* (Schröt.) Sacc. *Humariella pseudo-trechispora* Schröt. Krypt. Fl. Schles. III, p. 38. 2467

*Hab.* ad terram udam in silvis Silesiæ. — Ascomata 2-4 mm. lat. rubra, brunneo-pilosa, disco vivide miniato; asci 220  $\approx$  16-20; sporidia 16-20  $\approx$  13, reticulata.

13. *Lachnea paludosa* (Boud.) Sacc. *Ciliaria* (Trichophæa) *paludosa* Boud. Bull. Soc. Myc. Fr. 1894, p. 65, t. II, f. 4. 2468

*Hab.* ad terram argillaceam in umbrosis silvaticis Montmorency. — Ascomata 1-1,5 mm. lat., brunneo-hirta, disco glauco-cœrulescenti; asci 300  $\approx$  25; sporidia 23-25  $\approx$  17-19, hyalina, verrucosa.

14. *Lachnea nivalis* (Boud.) Sacc. *Ciliaria* Boud. Bull. Soc. myc. 1895, p. 29, fig. III. 2469

*Hab.* in fimo vaccino, Simplon (D. DUMÉE). — Ascomata 1 cm. lat., aurantio-rubra, extus pallidiora, pilis fuscis vestita; asci 300-350  $\approx$  25; sporidia 25-30  $\approx$  17-18, hyalinis, granulosis, episporio minutissime asperulo. Affinis *L. scutellatæ*.

14. *Lachnea barbata* Massee Journ. of Bot. 1892, pag. 163, t. 321, f. 5-8. 2470

*Hab.* ad truncos putridos, Bonhomme Valley, St. Vincent (ELLIOTT). — Ascomata cupulata, aurantio-rubra, fusco-pilosa; asci clavati; sporidia 30-32  $\approx$  15-16, hyalina, reticulata. E sect. *Scutellinæ*.

15. *Lachnea Spencerii* Colenso in Trans. N. Zeal. Inst. XXIII, 1891, p. 391 (*Peziza*), Beih. Bot. Centr. 1892, p. 18 (nomen). 2471

*Hab.* in Nova Zelandia.

## NEOTTIELLA Cooke — Syll. VIII, p. 190.

1. *Neottiella vitellina* Rostr. Till. Grönl. Svamp. p. 607. 2472

*Hab.* in foliis emortuis Alni ovatæ, in Groenlandia. — Ascomata 0,25 mm. lat., læte vitellina, hyalina, tomentosa; asci 30  $\approx$  5, tetraspori; sporidia 18-20  $\approx$  2, hyalina.

2. **Neottiella sparsipila** Karst. Symb. Myc. Fenn. XXXII, pag. 8 2473  
(*Humaria*).

*Hab.* in collibus graminosis, Mustiala Fennia. — Ascomata 6-8 mm. lata, parce fusco-pilosa, intus subaurantiaca: asci 170-195  $\times$  9-10; sporidia 15-16  $\times$  8-9, levia, hyalina.

3. **Neottiella microspora** Cooke et Massee in Grev. Vol. 22, p. 44. 2474

*Hab.* ad terram stercoretatam, in Britannia. — Ascomata subglobo expansa, albo-pilosa, 2-10 mm. lat., disco viridi-sulphureo; asci cylindrici; sporidia 7  $\times$  3,5, levia, hyalina.

**SCLEROTINIA** Fuck. — Syll. VIII, p. 195, X, p. 6. — De suo heteroicismo conf. Woronin in Berichte d. deut. bot. Gesellsch. 1894, p. 187 (*Sclerotinia heteroica* Wor. et Naw. = *S. Ledi*).

1. **Sclerotinia Ficariæ** Rehm Disc. in Krypt. Fl. p. 815. 2475

*Hab.* inter Ficarias, in horto botanico Berolini. — Ascomata 2-4 mm. lat., longe stipitata, brunnea; asci 90-100  $\times$  6-8; sporidia 6-8  $\times$  3-3,5, hyalina. Sclerotium subglobosum 2-10  $\times$  3-5 mm.

2. **Sclerotinia Cassiopes** Rostr. Oest-Grönl. Svamp. p. 14. 2476

*Hab.* in capsulis Cassiopes tetragonæ in Groenlandia. — Ascomata stipitata, atro-brunnea, 3-4 mm. lat., stipite 10-12  $\times$  0,5-1 mm.; sporidia 10-12  $\times$  6, hyalina.

3. **Sclerotinia Rhododendri** Fisch. Die Sklerot. Alpenrosen p. 1. 2477

*Hab.* in fructibus Rhododendri, in Alpibus Helvetiæ. — Ascomata longe stipitata, infundibuliformia; asci 220-250  $\times$  14-21; sporidia 15-20  $\times$  8-10, hyalina, levia.

4. **Sclerotinia nervisequa** Schröt. Pilz. Krypt. Fl. Schles. III, p. 65. 2478

*Hab.* in foliis putridis Alni et Populi secus nervos, in Silesia. — Ascomata stipitata, 1-2 mm. lat., brunnea; asci 90-110  $\times$  6-7; sporidia 11-12  $\times$  5-5,5, hyalina; sclerotium 4-10  $\times$  1-2 mm.

5. **Sclerotinia scirpicola** Rehm Disc. Krypt. Fl. p. 822. 2479

*Hab.* in calamis putridis Scirpi lacustris, in Germania. — ascomata infundibuliformia 5 mm. lat., longe stipitata, disco atro-rubro; asci 100  $\times$  8-10; sporidia 10-12  $\times$  4,5-5, hyalina; sclerotium 5-6  $\times$  4 mm.

6. **Sclerotinia Vahliaana** Rostr. Till. Grönl. Svamp. p. 607. 2480

*Hab.* inter vaginas foliorum Eriophori Scheuchzeri, in Groenlandia. — Ascomata castaneo-brunnea, stipitata, 4-8 mm. lat.; asci 150-170  $\times$  8-10; sporidia 11-14  $\times$  8-6; sclerotium oblongum 1 cm. long.



**CIBORIA** Fuck. — Syll. VIII, p. 201.

1. **Ciboria pachyderma** Rehm Disc. p. 758. 2481  
*Hab.* ad nervos et petiolos foliorum *Quercus*, in Germania.  
 — Ascomata breve stipitata, 1-4 mm. lat., flavo-brunnea, extus flavido-alba; asci 45-60  $\approx$  7-9; sporidia 6-7  $\approx$  4-4,5, hyalina.
2. **Ciboria Johnsonii** Ell. et Ev. Proc. Acad. Phil. 1894, p. 348. 2482  
*Hab.* ad fructus emortuos *Cratægi*, Michigan Amer. bor. —  
 Ascomata stipitata 3-8 mm. diam., brunnea; asci cylindracei; sporidia 8-10  $\approx$  4-5, hyalina.
3. **Ciboria tenuistipes** Schröt. Pilz. Krypt. Fl. Schles. III, p. 61. 2483  
*Hab.* in foliis siccis *Rubi fruticosi*, in Silesia. — Ascomata stipitata, atro-castanea, 1-1,5 mm. lat.; asci 40-50  $\approx$  4,5-5,5; sporidia 5-6  $\approx$  2-3, hyalina.
4. **Ciboria juncigena** Ell. et Ev. Proc. Acad. Phil. 1894, p. 348. 2484  
*Hab.* in calamis emortuis *Junci*, Washington Amer. bor. —  
 Ascomata stipitata 4-5 mm. diam., glauco-pruinosa, disco vinoso; asci 60  $\approx$  4-5; sporidia 7-8  $\approx$  1,3, hyalina.
5. **Ciboria fruticeti** Rehm Disc. p. 766 (*Rutstroemia*). 2485  
*Hab.* in sarmentis putridis *Rubi fruticosi*, in Germania. —  
 Ascomata stipitata, 0,5-2,5 mm. lat., atropurpurea, extus castanea; asci 100-130  $\approx$  9-10; sporidia 12-15  $\approx$  5, hyalina.
6. **Ciboria violacea** Rehm Disc. p. 768 (*Rutstroemia*). 2486  
*Hab.* in radicibus adhuc vivis graminum, in Germania. — Ascomata ceracea 2-4 mm. lat., stipitata, flavida, disco flavo vel violaceo; asci 120-150  $\approx$  10-12; sporidia fusioidea, 24-30  $\approx$  4-5, continua, dein (spurie?) 3-septata. — Si sporidia genuine septata, hæc et aliæ similes species genus proprium (*Rutstroemia*) efficere revera merentur.

**HELOTIUM** Fr. — Syll. VIII, p. 210, X, p. 6.

1. **Helotium fusisporum** Schröt. Krypt. Fl. Schles. III, p. 78. 2487  
*Hab.* in cortice ramorum *Betulæ albæ*, in Silesia. — Ascomata sessilia, 1 mm. lat., disco ochraceo-flavo, margine lacinulato; asci 90-100  $\approx$  7-9; sporidia 20-24  $\approx$  2-2,5, hyalina.
2. **Helotium follicolum** Schröt. Pilz. Krypt. Fl. Schles. III, p. 82. 2488  
*Hab.* in foliis dejectis *Alni*, *Populi* etc., in Silesia. — Ascomata varie stipitata, 1-1,5 mm. lat., alba, dein flavida; asci 100-120  $\approx$  9-11; sporidia 20-24  $\approx$  4-5, hyalina.
3. **Helotium Schenckii** P. Henn. F. Bras. p. 16. 2489  
*Hab.* in foliis vivis *Marcgraviæ Schimperianæ*, Blu.

menau Brasilæ. — Ascomata subsessilia, 0,5–1 mm. diam., disco flavo-miniato; asci 70–125  $\approx$  4–6; sporidia 4–7  $\approx$  2–3,5, cyaneo-hyalina.

4. *Helotium Inocarpi* Henn. Fung. novoguin. II, p. 40. — Ascomati- 2490  
bus hypophyllis, solitariis v. gregariis, ceraceis, patellaribus, sessilibus, 0,5–0,11 mm. diam., extus pallidis v. subflavescentibus, subfarinaceis, disco plano-concavo, flavo-aurantio, margine incrassato, crenato-repando, pallidiore; ascis clavatis, substipitatis, 35–45  $\approx$  4–7, octosporis, hyalinis; sporidiis oblique monostichis anguste cylindraceo-fusoideis, rectis, eguttulatis, hyalinis, 6–8  $\approx$  2–3; paraphysibus apice rotundato-clavatis, simplicibus, hyalinis.

*Hab.* in foliis *Inocarpi edulis*, Nova Guinea (O. WARBURG).

5. *Helotium Dactylidis* Schröt. Pilz. Krypt. Fl. Schles. III, p. 82. 2491

*Hab.* in foliis putridis *Dactylidis glomeratæ*, in Silesia.

— Ascomata sessilia, dilute flava, intus aurea; asci 45–50  $\approx$  6–7; sporidia 9–11  $\approx$  2,5–3, hyalina.

6. *Helotium Sommierianum* P. Magn. in N. Giorn. Bot. ital. 1893, 2492  
p. 108, t. III, f. 1.

*Hab.* in spica *Lycopodii clavati*, Obi infer. Sibiricæ occid. (SOMMIER). — Ascomata clavata 0,5–0,7 mm. alt., flava, dein fusciscentia, disco concavo; asci subclavati; sporidia cylindraceo-oblonga, 5–8  $\mu$ . long., hyalina, utrinque obtusula.

7. *Helotium fumosum* Ell. et Ev. North Am. Fungi n. 2632. Diagn. 2493  
sim non vidi.

# PHIALEA Fr. — Syll. VIII, p. 251, X, p. 9.

1. *Phialea nigrofusca* Rehm Disc. p. 731. 2494

*Hab.* in caulibus putridis Ortler Tirolia. — Ascomata atro-brunnea, intus albo-flava, 0,2–0,5 mm. alt., 0,2–1 mm. lat., stipite brevissimo; asci 45–50  $\approx$  5–6; sporidia 6–8  $\approx$  2, hyalina, obtusa.

2. *Phialea Dearnessii* E. et E. New sp. North Amer. Fung. in Pro- 2495  
ceed. Acad. S. N. Philad. 1893, p. 146.

*Hab.* in caulibus emortuis *Monardæ*, -London Canada (DEARNESS). — Ascomata substipitata 0,7 mm. diam., ex olivaceo flavido-sulphurea; asci 75–80  $\approx$  10; sporidia 30–35  $\approx$  3, hyalina, acute fusoidea, curvula.

3. *Phialea Winteri* Rehm Disc. p. 726. 2496

*Hab.* in caulibus siccis *Aconiti*, Albula-Pass Helvetiæ (WINTER). — Ascomata subsessilia, albo-hyalina, disco fuscello, 0,1–0,3

mm. diam.; asci 60-70  $\approx$  9, tetraspori; sporidia 12  $\approx$  4,5-5, hyalina.

4. *Phialea egenula* Rehm Disc. p. 726.

2497

*Hab.* in caulibus emortuis Rumicis Acetosæ, Berlin Germaniæ. — Ascomata 0,3-1 mm. lat. brunnea, stipite 0,3 mm. longo, disco flavo-albo; asci 45-50  $\approx$  5-6; sporidia 10-12  $\approx$  2,5, hyalina.

5. *Phialea occultata* Rehm Disc. p. 712.

2498

*Hab.* in ramulis emortuis Sarrothamni scoparii in Saxonia (KRIEGER). — Ascomata brunneo-viridula, intus albida, 0,2-1 mm. lat., 0,5-07 mm. alt.; asci 45-50  $\approx$  5; sporidia 6-7  $\approx$  2, hyalina.

6. *Phialea subglobula* Rehm Disc. p. 711.

2499

*Hab.* in ramulis dejectis decorticatis Salicis pr. Berlin (Sydow). — Ascomata brevissime stipitata, 0,3 mm. diam., subaurea; asci 40-45  $\approx$  5; sporidia 4-6  $\approx$  1, hyalina.

7. *Phialea subpallida* Rehm Disc. p. 710, *Niptera pallescens* Fuck. 2500  
nec Pers. (*Peziza*).

*Hab.* in ligno putri quercino, corylino, ulmeo in Germaniæ pluribus locis. — Ascomata flavida, 0,3-1,5 mm. lat., disco concolore, stipite 0,2-0,3 mm. long.; asci 50-65  $\approx$  7-8; sporidia 6-9  $\approx$  2,5-3, continua, dein (spurie?) 1-septata, hyalina.

8. *Phialea cyathiformis* Rehm Disc. p. 712.

2501

*Hab.* in ligno putri pr. Münster Germaniæ (LINDAU). — Ascomata crassiuscule stipitata, pallide diaphana, 0,3-1,5 mm. lat.; asci 60-70  $\approx$  9-10; sporidia 7-9  $\approx$  4, hyalina.

9. *Phialea macrospora* Rostr. Till. Grönl. Svamp. p. 608.

2502

*Hab.* in foliis Salicis glaucæ in Groenlandia. — Ascomata pallida, 0,5 mm. diam., stipite 0,5 mm. longo; asci 150  $\approx$  15-20; sporidia 18-20  $\mu$ . long., hyalina.

10. *Phialea lacteola* (Quél.) Sacc. *Calycella lacteola* Quél. Champ. 2503  
Jur. Suppl. XVIII, f. 1, t. II, f. 1.

*Hab.* in putaminibus Olivæ in Alpibus maritimis (BARLA). — Ascomata pruinosa, nivea, 0,2-0,3 mm. diam., margine fimbriata, stipite capillari 0,2 mm. longo; sporidia oblongo-ellipsoidea, 10-12  $\mu$ . long., hyalina.

11. *Phialea rosulea* Quél. Champ. Jur. Suppl. XVIII, p. 1, t. II, f. 2. 2504

*Hab.* in culmibus putrescentibus in Pyrenæis. — Ascomata pruinosa, rosella, 0,3-0,4 mm. lata, stipite brevissimo; sporidia oblongo-ellipsoidea, 13-16  $\mu$ . longa, hyalina, 2-3-guttata.

12. *Phialea temulenta* Prill. et Delacr. in Bull. Soc. Bot. France 2505  
1892, p. 169, Bull. Soc. mycol. 1892, p. 23.

*Hab.* in caryopsidibus Secalis cerealis, Parisiis in labora-

torii instituti agronomici. — Ascomata pallide ochraceo-mellea, 5-7 mm. diam.; stipite 7-10 mm. longo; asci 130-5; sporidia 10-4,5, hyalina. Species succedit *Endoconidio temulento*, cujus est status ascophorus.

13. *Phialea eburnea* (Desm.) Sacc. Syll. VIII, p. 258. — Sec. Karst. 2506  
Hedw. 1893, p. 60, sporidia sunt fusoides-elongata, eguttata, 4-6-0,5, juxta exempl. originalia Desmazierii.

**PEZIZELLA** Fuck. — Syll. VIII, p. 275, X, p. 10.

1. *Pezizella Myricae* Rehm Disc. p. 665.

2507

*Hab.* in pag. sup. foliorum *Myricae ceriferæ* in Lusatia sup. (SYDOW). — Ascomata flavo-brunneola, 50-100  $\mu$ . diam.; asci 40-45-8-9; sporidia 10-12-3, hyalina, fusoides.

2. *Pezizella sclerotinioides* Rehm Disc. p. 667.

2508

*Hab.* in pag. inf. foliorum *Rubi fruticosi* pr. Königstein a. Elbe Germaniæ (KRIEGER). — Ascomata albida, 0,1-0,3 mm. diam., e maculis sclerotinoideis oriunda; asci 40-45-6-10; sporidia 12-15-2,5-3, clavulata, hyalina.

3. *Pezizella auroricolor* Rehm Disc. p. 672.

2509

*Hab.* in caulibus putridis *Cirsii spinosissimi* et *Adenostylis albifrontis*, Peller-Alpe, Predazzo Tiroliae austr., Albula Helvetiae. — Ascomata flavida 0,2-1,5 mm. diam., disco roseo; asci 45-60-6-7; sporidia 8-12-2-2,5, hyalina.

4. *Pezizella fusco-sanguinea* Rehm Disc. p. 675.

2510

*Hab.* in caulibus *Cirsii spinosissimi* Predazzo in Tirolia merid. — Ascomata brunneo-flavida, disco pallide sanguineo 0,1-2,5 mm. diam.; asci 45-50-6-8; sporidia 6-8-2,5, hyalina.

5. *Pezizella plicatula* Rehm Disc. p. 676.

2511

*Hab.* in caulibus putridis *Aconiti Napelli*, Pizthal Tiroliae. — Ascomata 0,2-1,2 mm. diam., citrina, disco pallidior, extus plicatula; asci 50-60-6-7; sporidia 6-7-2, hyalina.

6. *Pezizella albido-rosea* Rehm Disc. p. 682.

2512

*Hab.* in calamis adhuc stantibus *Scirpi lacustris* pr. Klar-dorf Germaniæ. — Ascomata 0,3-2 mm. diam., albido-pruinosa, disco carneo; asci 60-70-9-10; sporidia 15-18-3-4, hyalina.

7. *Pezizella perexigua* (Schröt.) Sacc. *Hymenoscypha perexigua* 2513  
Schröt. Pilz. Krypt. Fl. Schles. III, p. 71.

*Hab.* in foliis putridis *Caricis* in Silesia. — Ascomata 0,3 mm. diam., diaphana, alba; asci 22-25-7-9; sporidia 5-6-2,5-3, hyalina.

8. **Pezizella pannorum** De Brond. Act. Soc. Linn. Bord. 1851, p. 297, 2514  
t. IV, f. 2 (*Peziza*).

*Hab.* in pannis putrescentibus dejectis in Gallia (BRONDEAU).  
— Minima, gregaria, ceraceo-carnosa, subconcava, marginata, demum hemisphærica, carnea.

9. **Pezizella viridi-flavescens** Rehm Disc. p. 658. 2515

*Hab.* in cortice secedenti Alni pr. Berlin (SYDOW). — Ascomata incoloria, sicca viridi-flavida, 0,2-0,4 mm. diam.; asci 27-30 = 3-5; sporidia 4-5 = 1-1,5, hyalina.

10. **Pezizella subtilissima** (Schröt.) Sacc. *Hymeroscypha subtilissima* 2516  
Schröt. Pilz. Krypt. Fl. Schles. III, p. 70.

*Hab.* in ligno vetusto Pini silvestris in Silesia. — Ascomata 0,3-0,5 mm. diam., ochraceo-pallida, disco albido; asci 22-30 = 4-5; sporidia fusoidea, hyalina, 4,5-6 = 1.

11. **Pezizella Bresadolæ** Rehm Disc. p. 657. 2517

*Hab.* in ligno putri abietino in alpinis Tridentinis (BRESADOLA). — Ascomata albido-flava, 0,6-1,2 mm. diam.; asci 60-70 = 5-6; sporidia 6-9 = 4-4,5, hyalina.

12. **Pezizella pudica** Rehm Disc. p. 656. 2518

*Hab.* ad caudices pineos prope Berlin (SYDOW). — Ascomata glabra, rosea v. roseo-brunneola, 0,2-1 mm. diam.; asci 40-50 = 4-5; sporidia 6-8 = 2, hyalina. — **Pezizella perparvula** Kärst. in Sydow M. March. n. 577, mihi ignota est.

## PSEUDOHELOTIUM Fuck. — Syll. VIII, p. 291.

1. **Pseudohelotium farinaceum** Cooke et Massee Grev. XXI, p. 71. 2519

*Hab.* in cortice Salicis Carlisle Britannicæ. — Ascomata 1-2 mm. lat., flavo-cornea, subsessilia, albo-pruinosa, disco glauco-albido; asci cylindrici; sporidia 4 = 1, hyalina.

2. **Pseudohelotium laricinum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 349. 2520

*Hab.* in acubus dejectis Laricis, Michigan Amer. bor. (JOHNSON). — Ascomata aurantiaca, 3-5 mm. diam., minute puberula; asci 75 = 8; sporidia 8-10 = 4-5, hyalina, continua.

3. **Pseudohelotium parvulum** (De Not.) Sacc. *Peziza* De Not. Micr. 2521  
ital. Dec. I, n. 2.

*Hab.* in pag. inf. foliorum Caricis pilosæ pr. Torino Ital. bor. — Ascoma granuliforme lacteum, extus villosulum; asci clavato-cylindracei; sporidia lineari-oblonga, 7-8 = 1,5-2, hyalina. Affine *Pseud. dispersello*.

**CYATHICULA** De Not. — Syll. VIII, p. 304, X, p. 11.

1. **Cyathicula alpina** Ell. et Ev. Proc. Acad. Phil. 1894, p. 349. 2522

*Hab.* in caulibus *Pedicularis culmisque Elymi condensati*, Colorado Amer. bor. — Ascomata stipitata, 0,7 mm. alta, pallida, margine obscure dentata, stipite 0,2 mm. alto; asci teretiv-clavati; sporidia 8-10  $\approx$  1,5-2, hyalina, continua.

2. **Cyathicula quisquiliaris** E. et E. New Fung. in Proceed. Acad. 2523  
N. Sc. Philad. 1893, p. 451.

*Hab.* in foliis petiolisque dejectis, Nuttallburg Virginia (NUTTALL). — Ascomata 1-1,5 mm. diam., sordide albo-furfuracea, disco pallide lateritio; asci 55-65  $\approx$  6-7; sporidia 6-8  $\approx$  3-4, hyalina, continua.

**CHLOROSPENIUM** Fr. — Syll. VIII, p. 315, X, p. 12.

1. **Chlorosplenium Urbanianum** Henn. Fung. bras. II, p. 525. 2524

*Hab.* ad ramos putridos Minas Geraës Brasilæ (GLAZIOU). — Ascomata stipitata, æruginosa, ad 2 cm. diam., stipite nigro, 8  $\approx$  1-2 mm.; asci 35-42  $\approx$  3-4; sporidia 3-5  $\approx$  1-1,5, hyalina.

2. **Chlorosplenium salviicolor** E. et E. New Sp. North Am. Fung. in 2525  
Proceed. Acad. S. N. Philad. 1893, p. 146.

*Hab.* in ramis emortuis *Vitis vulpinæ* St. Martinville Louisiana (LANGLOIS). — Ascomata 1,5-2 mm. lat., pallide viridia (ut *Salviæ* folia), in basim stipitiformem contracta; asci 30  $\approx$  2,5-3; sporidia 3-4  $\approx$  1-1,2, hyalina.

3. **Chlorosplenium canadense** E. et E. New Sp. North Am. Fung. in 2526  
Proceed. Acad. S. N. Philad. 1893, p. 146.

*Hab.* in cortice lignoque *Tiliæ*, London Canada (DEARNESS). — Ascomata 1-2 mm. diam., olivaceo-nigra, stipite 2-4 mm. long. olivaceo; asci 130-150  $\approx$  8-10; sporidia 30-60  $\approx$  3, multinucleata, hyalina.

**MOLLISIA** Fr. — Syll. VIII, p. 321, X, p. 12.

1. **Mollisia Gaultheriæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 349. 2527

*Hab.* in foliis subviviis *Gaultheriæ Shallon*, Seattle Washington Amer. bor. — Ascomata amphigena atro-hepatica, 0,5 mm. diam.; asci 45-50  $\approx$  10-12; sporidia 10-12  $\approx$  3-3,5, hyalina continua.

2. **Mollisia erysiphoides** Rehm Hedw. 1894, p. (66). — Ascomatibus 2528  
dense gregariis, totam paginam superiorem foliorum crustato-nigram reddentibus, punctiformibus, sessilibus, 50-250  $\mu$ . diam. mol-

libus, primitus subglabris, globosis, disco tenuissime marginato patellari, fusciculis, extus tenuiter parenchymatico-contextis, siccis nigris; ascis clavatis, haud stipitatis, apice rotundatis, 8-sporis, 45-60  $\approx$  9-10; sporidiis ellipticis v. ovatis, rectis v. subcurvulis, continuis, hyalinis 9-10  $\approx$  4; paraphysibus gracilibus, filiformibus.

*Hab.* ad folia *Achyroclines argentini*, Tubarao in Brasilia (ULE).

3. *Mollisia sudetica* Schröt. Krypt. Fl. Schles. Pilze III, p. 105. 2529

*Hab.* in caulibus siccis herbarum majorum in montibus Silesiæ.

— Ascomata 0,5-1,5 mm. lat., olivaceo brunnea, disco griseo-brunneo; ascii acuti, 45-50  $\approx$  5,5-7; sporidia 12-15  $\approx$  2-3, hyalina.

4. *Mollisia nipteroides* E. et E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 147. 2530

*Hab.* ad caules emortuos *Smilacis*, St. Martinville-Louisiana (LANGLOIS). — Ascomata 1-1,5 mm. diam., subsessilia, umbrina, pruinosa; ascii 35-40  $\approx$  5-6; sporidia 4-5  $\approx$  1,2-1,5, hyalina.

5. *Mollisia alpina* Rostr. Till. Grönl. Svamp. p. 609. 2531

*Hab.* in calamis languidis *Junci alpini* in Groenlandia. — Ascomata fusco-atra, 0,25 mm. diam.; ascii 40  $\approx$  6-8; sporidia 10-12  $\approx$  4, hyalina, 2-3-guttata.

6. *Mollisia caricinella* Brun. Misc. Myc. II, p. 19. 2532

*Hab.* in foliis siccis *Caricis ripariæ*, Fouras Galliæ. — Ascomata brunneo-rosea, disco roseo-pallido, glabra, perexigua; ascii breves; sporidia 7-9  $\approx$  1,5, continua, hyalina.

7. *Mollisia euparaphysata* Schröt. Krypt. Fl. Schles. Pilze, III, p. 107. 2533

*Hab.* foliis emortuis *Eriophori polystachii* et *Caricis* in Silesia. — Ascomata 0,2-0,3 mm. diam. pellucido-grisea; ascii 75-80  $\approx$  10-13; sporidia 12-14  $\approx$  4-4,5, hyalina; paraphyses lanceolatae ascos superantes.

8. *Mollisia Trametis* E. et E. New Spec. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 147. 2534

*Hab.* in Polyporo (v. *Tramete*?) ad truncos quercinos Newfield N. J. Amer. bor. — Ascomata mellea, 114-150  $\mu$ . diam., nectrioidea; ascii 20-23  $\approx$  4-5; sporidia 3,5-4,5  $\approx$  1,5-2, hyalina.

9. *Mollisia Myriostylidis* Rehm Hedw. 1892, p. 301, (*Mollisiella*). 2535

*Hab.* in foliis *Myriostylidis*, Canzacoto Æquatoris (LAGERHEIM). — Ascomata 0,2-1 mm. lat., aquose flavida, disco flavido; ascii 60-70  $\approx$  6-8; sporidia globulosa, levia, hyalina, 3  $\mu$ . lat. monosticha. Cl. Rehm de indumento silet, si puberula ad *Pseudo-*



*helothii* sectionem *Mollisiella* est referenda, si glabra, novum genus, ob sporidia globosa, efficere meretur.

10. *Mollisia Viburni* Karst. Hedw. 1892, p. 130, *Excipula Viburni*. 2536  
Fuck.?

*Hab.* in pag. inf. foliorum *Viburni* Tini in calidariis Helsingfors Fenniae. — Ascomata 0,2-0,3 mm. diam., atra, nuda, disco luteo-virente; asci 55-70  $\approx$  7-9; sporidia 8  $\approx$  4-6, hyalina, 1-guttata. Cl. auctor ducit ad subgenus *Aleuriellam* Karst. distinctum sporidiis submonostichis, ellipsoideis, 1-guttatis.

**PYRENOPEZIZA** Fuck. — Syll. VIII, p. 354, X, p. 17.

1. *Pyrenopeziza albo-cincta* Rehm Disc. p. 617. 2537

*Hab.* in caulibus putridis *Aconiti Napelli* in Tirolia et Helvetia. — Ascomata 0,2-2 mm. diam., atro-brunnea, late albo-flavido-cincta, disco griseo v. flavido; asci 60-75  $\approx$  7-9; sporidia 9-12  $\approx$  2-2,5, hyalina.

2. *Pyrenopeziza compressula* Rehm Disc. p. 618. 2538

*Hab.* in caulibus *Ononidis*, *Salviae*, *Loti*, *Melittidis*, *Prenanthis*, *Epilobii* in Carniolia, Helvetia, Germania. — Ascomata 0,1-0,3 mm. diam., brunneola, disco subroseo; asci 45-60  $\approx$  5-6; sporidia 8-12  $\approx$  1,5-3, hyalina.

3. *Pyrenopeziza subplicata* Rehm Disc. p. 618. 2539

*Hab.* in foliis siccis *Laserpitii Sileris* in Carniolia (Voss). — Ascomata 0,3-0,8 mm. diam., brunnea, disco albo; asci 40-45  $\approx$  10; sporidia 12-14  $\approx$  3, hyalina.

4. *Pyrenopeziza polymorpha* Rehm Disc. p. 619. 2540

*Hab.* in caulibus *Galii Molluginis* in Bavaria. — Ascomata 0,2-1 mm. diam., brunnea, disco griseo-brunneo; asci 45-50  $\approx$  5-6; sporidia 9-12  $\approx$  2,5-3, hyalina.

5. *Pyrenopeziza dermatoides* Rehm Disc. p. 624. 2541

*Hab.* in caule sicco *Helianthi* annui, Anhalt Germaniae (STARITZ). — Ascomata 0,5-1,5 mm. diam., tota flavido-brunnea; asci 65-70  $\approx$  9-10; sporidia 10-12  $\approx$  4-4,5.

6. *Pyrenopeziza odontotremoides* Rehm Disc. p. 616. 2542

*Hab.* in caulibus siccis *Compositarum*, *Ortler* Tiroliae. — Ascomata 0,2-0,5 mm. atro-brunnea, disco roseo; asci 45-50  $\approx$  7-8; sporidia 9-10  $\approx$  2,5, hyalina.

7. *Pyrenopeziza Homogynes* Schröt. Krypt. Fl. Schles. Pilze, III, 2543  
p. 416.

*Hab.* in foliis *Homogynes* alpinae in Silesia. — Ascomata

0,2-0,3 mm. diam., flavo-brunnea, disco flavido v. roseo-flavido; asci 60-70  $\approx$  11-13; sporidia immatura visa, ergo species dubia.

8. *Pyrenopeziza Jasiones* Romell Fungi nov. v. crit. p. 74.

2544

*Hab.* in caulibus semivivis *Jasiones montanæ* ad Femsjö Sueciæ. — Ascomata erumpentia, nigra, 0,3-0,5 mm. diam., disco griseo-atro, margine erecto dentato; asci 44-60  $\approx$  6-8; sporidia 9-14  $\approx$  2,5-3,5, continua, hyalina, 2-4-guttulata.

9. *Pyrenopeziza pezizelloides* Rehm in Romell Fungi nov. v. brit. p. 74.

2545

*Hab.* in caulibus emortuis *Cynanchi Vincetoxici* prope Stockholm. — Ascomata erumpentia, 0,5 mm. diam., ceracea, aurantio-rufescentia, disco hyalino-rubello, margine ciliatulo; asci 50-60  $\approx$  4; sporidia 8-10  $\approx$  1-1,5, hyalina. «Ex colore et consistentia potius *Pezizella*».

10. *Pyrenopeziza carniolica* Rehm Disc. p. 630.

2546

*Hab.* in utraque pagina foliorum *Genistæ tinctoriæ* et *Cytisi nigricantis* in Carniolia (Voss). — Ascomata 0,1-0,3 mm. diam., atro-brunnea, disco griseo-albo, albido-marginato; asci 35-40  $\approx$  6-8; sporidia 6-7  $\approx$  2,5, hyalina.

11. *Pyrenopeziza fimbriata* Rehm Disc. p. 613.

2547

*Hab.* ad ligna quercina pr. Heidelberg Germaniæ (ZWACKH). — Ascomata 0,3-1,2 mm. diam., brunneo-nigra, albido-flavo-fimbriata, disco flavido-roseo; asci 90-100  $\approx$  6-8; sporidia 9-12  $\approx$  3, hyalina.

**TAPESIA** Pers. — Syll. VIII, p. 371, X, p. 18.

1. *Tapesia coloradensis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 350.

2548

*Hab.* in cortice Sambuci melanocarpæ, Colorado Amer. bor. (BAKER). — Ascomata 1-2 mm. diam., nigricantia, disco glauco vel sublivido, demum atro; asci 45-55  $\approx$  8-10; sporidia 8-11  $\approx$  2,5-3,5.

2. *Tapesia orbilioides* (Rehm) Sacc. *Eriopeziza orbilioides* Rehm Disc. p. 695.

2549

*Hab.* in sarmentis emortuis *Vitis* pr. Berlin Germaniæ. — Sulphurea dein flavida, rugulosa, disco melleo, 1-3 mm. lat.; asci 120  $\approx$  14-15; sporidia 12  $\approx$  6, hyalina.

3. *Tapesia lata* Rostr. Oest-Grönland. Svampe p. 16.

2550

*Hab.* ad caudices in Groenlandia. — Ascomata subiculo fusco, late effuso, denso inserta, alba v. flavida, 1 mm. diam.; asci 40-45  $\approx$  5-6; sporidia 8-10  $\approx$  2, hyalina.

4. *Tapesia lutamentorum* De Brond. Act. Soc. Linn. Bord. 1851, p. 296, t. III, f. 1.

2551

*Hab.* in lutis paleatis humidis, in Gallia. — Subiculum album; ascomata carneo-rosea, ciliato-fimbriata.

**LACHNELLULA** Karst. — Syll. VIII, p. 390.

1. **Lachnellula microspora** E. et E. New Fung. in Proceed. Acad. 2552  
N. Sc. Philad. 451.

*Hab.* in cortice Abietis, Newfoundland seu Terranova Amer. bor. — Ascomata 2-3 mm. diam., breve stipitata, rufo-cinereo-tomentosa, disco pallide aurantio, sicco rufo; asci 55-60  $\approx$  6-7; sporidia globosa, levia, hyalina, 3,5  $\mu$ . diam.

**LACHNELLA** Fr. — Syll. VIII, p. 391, X, p. 19.

1. **Lachnella virginica** Ell. et Ev. Proc. Acad. Phil. 1394, p. 349. 2553

*Hab.* in ligno emortuo Magnoliæ Fraseri, in Virginia Amer. bor. (NUTTALL). — Ascomata 0,7-1,2 mm. diam., rufo-brunneo-pilosa, disco pallido; asci 50  $\approx$  5; sporidia 6-8  $\approx$  1,5-2,5.

2. **Lachnella dovrensis** Rostr. Bidr. Ascom. Dovr. p. 3. 2554

*Hab.* in cortice Betulæ, prope Døvre Norvegiæ. — Ascomata 1-2 mm. lat., rufo-testacea, tomentosa; asci 70-80  $\approx$  9-10; sporidia 9-10  $\approx$  2,5.

3. **Lachnella subflammea** Rehm Disc. in Rabenh. Krypt. Fl. p. 860. 2555

*Hab.* in ramis decorticatis Fagi in Bavaria. — Ascomata 0,3-1 mm. diam., brunneo-pilosa; asci 90-100  $\approx$  10-12; sporidia 12-15  $\approx$  4-4,5, hyalina.

4. **Lachnella citrina** Peck 46 Rep. p. 35. 2556

*Hab.* in cortice Castaneæ, Shokan Amer. bor. — Ascomata 0,5-0,7 mm. lat., villosa-tomentosa, citrino-flava, disco subaurantiaco; asci 70  $\mu$ . long.; sporidia 10-12  $\approx$  4.

5. **Lachnella Pini** Brunch. Nogle norske etc. et in Zeitschr. für Pares. 2557  
1894, p. 242.

*Hab.* in cortice Pini silvestris parasitice v. saprophytice in Norvegia. — Ascomata brevi-stipitata, 5 mm. diam., brunneo-pilosa, disco rubro-flavo, margine pallido; asci 100  $\approx$  8-9,5; sporidia 19-20  $\approx$  6,5-8,5, octona, hyalina.

6. **Lachnella rhizophila** Ell. et Ev. Proc. Acad. Phil. 1894, p. 348. 2558

*Hab.* in radicibus emortuis Rhois diversilobæ, Washington Amer. bor. — Ascomata 0,5-1 mm. diam., pallide-brunneo-pilosa, disco sordide albo; asci cylindrici; sporidia 10-12  $\approx$  3, hyalina, 2-3-nucleata.

**TRICHOPEZIZA** Fuck. — Syll. VIII, p. 401, X, p. 20.

1. *Trichopeziza fulvo-grisea* (Rehm) Sacc. *Lachnum fulvo-griseum* 2559  
Rehm Disc. Krypt. Fl. p. 894.

*Hab.* in caulibus siccis *Adenostylidis*, in Helvetia (WINTER).  
Ascomata 0,2-0,4 mm. lat., brunneolo-pilosa, flavida, disco pallidiore;  
asci 40-45  $\approx$  5-6; sporidia 6-8  $\approx$  1,5-2, hyalina.

2. *Trichopeziza badia* (Rehm) Sacc. *Lachnum badium* Rehm Disc. 2560  
Krypt. Fl. p. 893.

*Hab.* in caulibus putridis *Artemisiæ campestris*, in Germania. — Ascomata 0,2-0,4 mm. lat., brunneola, tomentosa, disco albido; asci 40-45  $\approx$  5; sporidia 9-10  $\approx$  2, hyalina.

3. *Trichopeziza cœrulea* Schröt. Krypt. Fl. Schles. III, p. 86 (*Dasyscypha*). 2561

*Hab.* in cortice *Quercus Roboris*, in Silesia. — Ascomata sessilia 1-2 mm. lat., læte cœruleo-pilosa, disco rufo-brunneo; asci 55  $\approx$  5-6; sporidia 13-15  $\approx$  2,5-3, hyalina.

4. *Trichopeziza subglabra* (Rehm) Sacc. *Lachnum subglabrum* 2562

Rehm in Sydow Mycoth. march. Cent. 39, n. 3854. — Ascomatibus gregariis, primitus globosis, disco rotundo patellariformi plano demum convexulo marginato, extus subglabris, vix stipitatis, flavo-hyalinis 0,2-0,8 mm. diam. coraceis; ascis clavatis apice rotundatis 45  $\approx$  6, 8-sporis; sporidiis anguste fusoides rectis, continuis, utroque apice guttula 1 præditis, hyalinis 9-14  $\approx$  2, 2-stichis; paraphysibus lanciformibus, ascos longe superantibus 4  $\mu$ . diam., hyalinis;

*Hab.* in calamis *Junci filiformis*, Muskau Germaniæ. — Ascomata sicca extus vix tomentosa alba, disco flavo-brunneo v. citrino.

5. *Trichopeziza carinata* Cooke et Mass. in Grev. Vol. 22, p. 121. 2563

*Hab.* in caulibus *Filicum*, Halifax Britanniae (CROSSLAND). — Ascomata 0,2-0,3 mm. lat., nivea, tomentosa, 5-7-costata; ascis clavatis; sporidia 12-16  $\approx$  3.

**DASYSCYPHA** (Fr.) Fuck. — Syll. VIII, p. 432, X, p. 21.

1. *Dasyscypha hyalotricha* Rehm Disc. Krypt. Fl. p. 831. 2564

*Hab.* in caulibus siccis *Cirsii spinosissimi*, Gotthard Pass Helvetiæ. — Ascomata 0,1-0,4 mm. lat., pallide rosea, hyalino-pilosa, subsessilia; asci 50-60  $\approx$  9; sporidia 7-10  $\approx$  3, hyalina, 1-2-guttata, denique (spurie?) 1-septata.

2. *Dasyscypha Salicariæ* Rehm Disc. Krypt. Fl. p. 851. 2565

*Hab.* in caulibus *Lythri Salicariæ*, in Germania. — Asco-

mata breve stipitata, 0,2-1,5 mm. diam., albido-pilosa, disco vitellino; asci 36-40  $\approx$  4-5; sporidia 6  $\approx$  1,5-2, hyalina.

3. **Dasyscypha Fragariastris** (Phill.) Sacc. *Lachnella* Phill. in Buckn. 2566  
Brist. XIII, et Grev. XX, p. 38. — Gregaria, stipitata, firma, cyathiformis, leviter purpurea, margine pallidior, pilis brevibus, simplicibus, sursum sæpius dilatatis, hyalinis vestita; ascis subclavatis; sporidiis fusoides v. oblongo-fusoides, 5  $\times$  1-2, paraphysibus acicularibus, obtusulis, subinde abrupte acuminatis.

*Hab.* in caulibus emortuis *Fragariæ*, Clevedon Britanniae (BUCKNALL).

4. **Dasyscypha pulchella** Schröt. Krypt. Fl. Schles. Pilze, III, p. 88. 2567

*Hab.* in foliis siccis *Quercus Roboris*, in Silesia. — Ascomata 0,3-0,5 mm. lat., citrina, tenuiter pilosa brevissime stipitata, disco flavo; asci 50-66  $\approx$  6-7; sporidia 10-13  $\approx$  1,5-2, hyalina.

5. **Dasyscypha Gaultheriæ** E. et E. New West Amer. Fung. in Erythea p. 199 (*Peziza*). 2568

*Hab.* in foliis vivis *Gaultheriæ Shallon*, Washington. — Ascomata stipitata 0,7-1 mm. diam., dense pilosa, pallide aurantia, disco saturatiore; asci 40  $\times$  3-4; sporidia 4-5  $\times$  1-1,2, hyalina.

6. **Dasyscypha splendens** Schröt. Krypt. Fl. Schles. III, p. 85. 2569

*Hab.* in ramulis dejectis *Abietis excelsæ*, in Silesia. — Ascomata 1-2 mm. lat., albo-pilosa, breve stipitata, disco vitellino; asci 80-90  $\times$  9-11; sporidia 22-25  $\times$  4,5-5,5 hyalina.

7. **Dasyscypha pubescens** Rehm Disc. Krypt. Fl. p. 836. 2570

*Hab.* in ramis decorticatis *Salicis*?, in Guestphalia (TAVEL). — Ascomata stipitata 0,2-2,5 mm. lat., albido-flava, puberula; asci 40-45  $\times$  5; sporidia 6-8  $\times$  2,5, hyalina.

8. **Dasyscypha Warburgiana** P. Henn. Hedw. 1893, p. 226, t. VIII, fig. 5. 2571

*Hab.* in cortice viventi *Cinchonæ Ledegerianæ*, in insula Java. — Ascomata 0,5-1 mm. diam., brevissime stipitata, flavo-villosa, disco aurantiaco; asci 50-70  $\times$  7-9; sporidia 5-10  $\times$  3-4, hyalino-carneola.

9. **Dasyscypha hyalinella** (Rehm) Sacc. *Lachnum hyalinellum* Rehm 2572  
Disc. in Krypt. Fl. p. 874.

*Hab.* ad corticem arborum, Berlin Germaniæ (MAGNUS). — Ascomata 0,3-1 mm. diam., brevissime stipitata, flavo-albida, pilosula; asci 30-35  $\times$  4-5; sporidia 6-7  $\times$  1,5 hyalina.

10. **Dasyscypha aleuroides** Cooke Grev. XXI, p. 73.

*Hab.* in petiolis *Palmarum*, Nilghiri Indiæ. — Ascomata

0,5-1 mm. lat., breve stipitata, ochracea, pilosa; asci tereti-clavati; sporidia 8-10  $\times$  1.

11. *Dasyscypha glacialis* Rehm Disc. Krypt. Fl. p. 841.

2574

*Hab.* in calamis siccis Junci trifidi, in alpinis Tiroliae. — Ascomata breve stipitata 0,5-0,8 mm. lat., rubentia, pilosa, disco flavido; asci 50-55  $\times$  5-7; sporidia 10-14  $\times$  2,5-3, hyalina.

12. *Dasyscypha phæomorpha* (Rehm) Sacc. *Lachnum phæomorphum* Rehm Disc. Krypt. Fl. p. 907. 2575

*Hab.* in foliis siccis Caricis, in Germania. — Ascomata 0,1-0,2 mm. diam., breve crasse stipitata, flavido-grisea, pilosa, sicca flavo-brunnea; asci 55-60  $\times$  6; sporidia 15-17  $\times$  1-1,5 hyalina.

13. *Dasyscypha cœruleo-alba* (Rehm) Sacc. *Lachneum cœruleo-album* Rehm Disc. in Rabenh. Krypt. Fl. p. 884. 2576

*Hab.* in foliis putrescentibus Caricis, pr. Berlin Germaniæ (Sydow). — Ascomata brevissime stipitata 0,1-0,12 mm. diam., cœruleo-alba, pilosula; asci 55-60  $\times$  10-12; sporidia 15-16  $\times$  3,5-4,5, hyalina.

14. *Dasyscypha Nardi* (Rehm) Sacc. *Lachnum Nardi* Rehm Disc. in Rabenh. Krypt. Fl. p. 883. 2577

*Hab.* in culmis siccis Nardi strictæ, pr. Berlin Germaniæ (Sydow). — Ascomata 0,2 mm. diam., tenuiter stipitata, albo-flavida, pilosa; asci 40-45  $\times$  5; sporidia 5-7  $\times$  1, hyalina.

15. *Dasyscypha junciseda* (Schröt.) Sacc. *Lachnum juncisedum* Schröt. Krypt. Fl. Schles. Pilze, III, p. 96. 2578

*Hab.* in calamis siccis Junci squarrosi, in Silesia. — Ascomata 0,6-0,8 mm. alt., atro-stipitata, brunnea, disco dilutiore 0,5-1 mm. diam.; asci 45-50  $\times$  6-8; sporidia 11-17  $\times$  2-3, hyalina.

16. *Dasyscypha labiata* (Desm.) Sacc. Syll. VIII, pag. 724. Secundum cl. Karst. Hedw. 1893, pag. 60, sunt asci 50-55  $\times$  6; sporidia 9-14  $\times$  2-2,5, fusoides-elongata, continua (juxta specimina orig. Desmaz.). 2579

## Sect. 2. Phæosporæ.

**PHÆOPEZIA** Sacc. — Syll. VIII, p. 471, X, p. 24.

1. *Phæopezia olivacea* Pat. Bull. Soc. Myc. 1893, p. 145.

2580

*Hab.* in ligno emortuo, Cotocollao Æquatoriæ (LAGERHEIM). — Orbicularis, applanata, 3 mm. lata; hymenio olivaceo-viridi; stipite 2 mm. long.; asci 50-60  $\times$  5; sporidia 6  $\times$  4, olivaceo-fuliginea.

2. *Phæopezia reperta* (Boud.) Sacc. *Aleuria reperta* Boud. Bull. Soc. 2581  
Myc. Fr. 1894, p. 64, t. II, f. 3.

*Hab.* ad lignum putridum Populi, Montmorency Galliæ. — Ascoma olivaceum, extus pruinose, stipite crasso villosulo, disco atro-virente; asci 250 × 13; sporidia 26-28 × 9-11, olivacea, verruculosa, utrinque acuminata. Habitus fere Bulgariaceus.

3. *Phæopezia marchica* Rehm Disc. p. 952 (*Humaria*). 2582

*Hab.* in trunco fagineo putri prope Cladow in Marchia. — Nigricans, sicca castaneo-brunnea, 1-8 mm. lat.; asci 75-90 × 5; sporidia 7-9 × 3, hyalina, dein griseo-brunnea (an tandem 1-septata?).

4. *Phæopezia lignicola* Rostr. Oest-Grönl. Svampe p. 16. 2583

*Hab.* ad ligna in Groenlandia. — Ascomata nigra, sessilia, 0,5-1 mm. diam.; asci 70-72 × 6-7; sporidia 10-11 × 6, fusca.

### Sect. 3. Didymosporæ.

**HELOTIELLA** Sacc. — Syll. VIII, p. 474.

1. *Helotiella Nuttallii* Ell. et Ev. Proc. Acad. Phil. 1894, p. 351. 2584

*Hab.* in ligno putri, in Virginia Amer. bor. (NUTTALL). — Ascomata 0,5-1 mm. diam., aurantiaca, disco pallidiore; asci 50-60 × 5-6; sporidia 8-10 × 2,5-3, hyalina, 1-septata.

2. *Helotiella major* Ell. et Ev. Proc. Acad. Phil. 1894, p. 351. 2585

*Hab.* in ligno putri, Michigan Amer. bor. — Ascomata 1-2 mm. diam., albida, pilosula, disco sordide aurantio; asci 65-70 × 7-8; sporidia 12-16 × 2,5-3, hyalina, 1-septata.

3. *Helotiella lactea* E. et E. New Sp. North Amer. Fun. in Proceed. Acad. S. N. Philad. 1893, p. 145 (*Helotium*). 2586

*Hab.* ad ligna decorticata, New York Amer. bor. — Ascomata stipitata, 0,5-0,7 mm. lat., albo-flavida, pruinosa; asci 75-80 × 5; sporidia 10-15 × 2,5-3, hyalina, demum 1-3-septata; si sporidia genuina 3-septata, forte novi generis typus.

4. *Helotiella stromatica* Cooke Grev. XX, p. 91. — Hypophylla, stro- 2587

mate atro, orbiculari 5 mm. diam., insidens; ascomatibus sessilibus 180 µ. diam., gregariis, plano-convexis, mollibus, cerinis vel ochraceis, extus saccharino-granulatis, pallidioribus; ascis clavatis; sporidiis fusoidis, uniseptatis, 30 × 6, hyalinis, utrinque appendiculatis.

*Hab.* in foliis emortuis in Brasilia (GLAZIOU).

5. *Helotiella circinans* Pat. Bull. Soc. Myc. 1892, p. 125. 2588

*Hab.* in foliis vivis Urticacæ cujusdam, Puente de Chimbo



*Æquatoriæ* (LAGERHEIM). — Ascomata 60-90  $\mu$ . diam., glabra, albidâ; asci 50  $\approx$  10; sporidia clavata, 1-septata, 10  $\approx$  3, hyalina.

6. *Helotiella incarnata* Pat. Bull. Soc. Myc. 1892, p. 125.

2589

*Hab.* in pag. inf. foliorum *Senecionis spec.*, Pichincha *Æquatoriæ* (LAGERHEIM). — Ascomata 0,2-0,5 mm. diam., albo-lanosa, disco pallide incarnato; asci 72  $\approx$  10, sporidia 9-10  $\approx$  2-3, chlorino-hyalina, 1-septata.

7. *Helotiella pygmæa* Ell. et Ev. Proc. Acad. Phil. 1894, p. 350.

2590

*Hab.* in culmis *Tritici*, Ohio Amer. bor. (MORGAN). — Ascomata 0,2-0,3 mm. diam., pallida, sicca flavida; asci 30  $\approx$  6 p. sp.; sporidia 10-14  $\approx$  3-3,5, 1-septata, hyalina.

8. *Helotiella papyricola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 351.

2591

*Hab.* in charta dejecta putrescenti, Michigan Amer. bor. — Ascomata 200-300  $\mu$ . diam., pallide aurantiaca, parce furfuracea; asci 25-30  $\approx$  12 vel 50-60  $\approx$  8; sporidia 12-15  $\approx$  3, 1-septata, hyalina.

# **NIPTERA** Fr. em. — Syll. VIII, p. 480, X, p. 24.

1. *Niptera Lithospermi* E. et E. New Sp. North Fung. in Proceed. Acad. S. N. Philad. 1893, p. 147.

2592

*Hab.* in caulibus emortuis *Lithospermi canescentis*, Montana Amer. bor. — Ascomata 0,7 mm. diam., atrobrunnea, disco livido; asci 45-55  $\approx$  8-10; sporidia 12-15  $\approx$  3-3,5, constricto-1-septata, hyalina.

2. *Niptera Ellisii* Rehm in Ellis North Am. Fung. n. 232). Diagno. sim non vidi.

2593

# **SCUTULA** Tal. — Syll. VIII, p. 486, X, p. 25.

1. *Scutula xylobia* Schröt. Krypt. Fl. Schles. III, p. 123.

2594

*Hab.* in ligno putri, in Silesia. — Ascomata 0,1-0,3 mm. diam., atrobrunnea; asci 35-40  $\approx$  13-15; sporidia 14-16  $\approx$  6-7, 1-septata, hyalina.

## *Sect. 4. Phragmosporæ.*

# **DERMATELLA** Karst. — Syll. VIII, p. 489.

1. *Dermatella viticola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 352.

2595

*Hab.* ad truncos emortuos *Vitis*, in Virginia Amer. bor. (NUTTALL). — Sessilis, carnea, uda, pallida, 0,5-0,7 mm. diam.; asci 70  $\approx$  12; sporidia 15-18  $\approx$  6-6,5, 1-3-septata, hyalina.

2. **Dermatella caryigena** E. et E. New Sp. North Amer. Fung. in 2596  
Proceed. Acad. S. N. Philad. 1893, p. 148.

*Hab.* in ramis emortuis Caryæ, Pennsylvania Amer. bor. — Ascomata cæspitosa 0,5-0,7 mm. diam., fere nigra; asci 75-80  $\approx$  10; sporidia 12-14  $\approx$  4,5-6, chlorino-flavida, 3-septata.

3. **Dermatella Hamamelidis** E. et E. New Sp. North Amer. Fung. in 2597  
Proceed. Acad. S. N. Philad. 1893, p. 149.

*Hab.* in ramis Hamamelidis virginianæ, West Chester Pennsylvaniae Amer. bor. — Ascomata 0,5 mm. diam.; rufo-brunnea, subcæspitosa; asci 75-80  $\approx$  12-15; sporidia 12-15  $\approx$  5-6, flavida, serius 3-septata.

4. **Dermatella Fraxini** E. et E. New Sp. North Amer. Fung. in Pro- 2598  
ceed. Acad. S. N. Philad. 1893, p. 149.

*Hab.* in cortice Fraxini, London Canada Amer. bor. (DEARNESS). — Ascomata subcæspitosa, carnea, 0,7-1 mm. diam.; asci 125-150  $\approx$  12-15; sporidia 25-35  $\approx$  10-12, subhyalina, dein brunnea, 3-5-septata.

5. **Dermatella montanensis** E. et E. New Sp. North Amer. Fung. in 2599  
Proceed. Acad. S. N. Philad. 1893 p. 148.

*Hab.* in ramulis emortuis, Sheridan Montana Amer. bor. — Ascomata 0,7-1 mm. diam., livida, subgelatinosa, sicca nigra; asci 72-80  $\approx$  18-22 p. sp.; sporidia 3-septata, 20-24  $\approx$  7-8, demum flavo-brunnea.

**BELONIUM** Sacc. — Syll. VIII, p. 492, X, p. 26.

1. **Belonium arabicolum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 352. 2600

*Hab.* in caulibus emortuis Arabidis furcatæ, Washington Amer. bor. — Ascomata 300-400  $\mu$ . diam., nigra; asci 80-100  $\approx$  9-10; sporidia 40-60  $\approx$  1,2, dein probabiliter pluriseptata.

2. **Belonium decipiens** Rehm Disc. p. 643 (*Beloniella*). 2601

*Hab.* in caulibus siccis Galii Molluginis, in Germania. — Ascomata 0,3-1 mm. lat., brunneola, disco griseo: asci 50-60  $\approx$  6-8; sporidia 30-40  $\approx$  1,5-2, 1-pluriseptata, hyalina.

3. **Belonium myriadeum** Cooke et Massee Grev. XXI, p. 71. 2602

*Hab.* in ramis Ulicis, Carlisle Britannæ. — Ascomata 250  $\mu$ . diam., atra, margine pallidiore, basi brunneo-pilosa; asci clavato-cylindracei; sporidia 25-30  $\approx$  4-5, 3-septata, hyalina.

**BELONIDIUM** Mont. — Syll. VIII, p. 496, IX, p. 27.

1. **Belonidium rhabdospermum** (B. et Br.) Sacc. *Tapezia* (B. et Br.) 2603  
Phill. Disc. p. 280.

*Hab.* in lignis putridis Britanniae. — Subiculum tomentosum, fulvum; ascoma fulvescens, extus pallidius, villosum, 500  $\mu$ . diam.; asci fusoides; sporidia filiformia  $65 \div 3$ , multiguttulata. Simillimum *B. aurato*, at, nisi subiculum, potius *Erinellæ* species.

2. *Belonidium dongolense* Sacc. F. Abyss. p. 7, t. XX, fig. 9. — Ascomatibus sparsis, superficialibus, sessilibus, basi centrali affixis, plano-patellatis, majusculis, 2 mm. diam., extus margineque obtusiusculo pilosulis, pilis teretiusculis continuis, apice rotundatis, asperulis,  $60-70 \div 4$ , melleis; disco plano levi amœne luteo (vitellino); ascis tereti-clavatis brevissime stipitatis vertice acutato-truncatis,  $90-100 \div 7-8$ , octosporis; sporidiis tristichis cylindraceo-clavatis, apice rotundatis,  $36-40 \div 2$ , curvulis, 4-6-septatis, non constrictis, hyalinis; paraphysibus filiformibus, septulatis, hyalinis. 2604

*Hab.* in corticibus emortuis mont. Dongollo pr. Ghinda Erythrææ (PENZIG). — Ab affini *Bel. amœno* Speg. Syll. VIII, p. 502: differt ascomatibus multo majoribus, depressis, pilis continuis, disco vitellino etc.

3. *Belonidium tympanoides* E. et E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 149. 2605

*Hab.* in ligno putri, London Canada Amer. bor. (DEARNESS). — Ascomata 0,3-0,5 mm. diam., atra, disco pallido; asci  $80-100 \div 12$ ; sporidia  $40-60 \div 2,5$ , multiseptata, hyalina.

4. *Belonidium minimum* E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 1893, p. 452. 2606

*Hab.* in caulibus emortuis Araliæ racemosæ, Delaware Amer. bor. — Ascomata  $90-110 \mu$ . diam., pallide rosea, furfuraceo pilosa vel subglabra; asci  $45-55 \div 6-7$ ; sporidia  $14-20 \div 3-3,5$ , hyalina, 3-septata.

5. *Belonidium roseo-album* Rehm Disc. p. 687 (*Belonium*). 2607

*Hab.* in foliis siccis Eriophori angustifolii, in Carniola (Voss). — Ascomata 0,2-0,3 mm. lat., albida, disco roseo; asci  $45-50 \div 4-5$ , 4-6-spori; sporidia acicularia  $21-27 \div 1,5-2$ , pluriseptata, hyalina.

6. *Belonidium rufum* Schröt. Krypt. Fl. Schles. Pilze, III, p. 109. 2608

*Hab.* in foliis vaginisque siccis Calamagrostidis Halleri, in Silesia. — Ascomata 0,5-1 mm. diam., flavido-brunnea, disco rubro-brunneo; asci  $65-70 \div 5-6$ ; sporidia  $16-20 \div 2-3$ , 1-3-septata, hyalina.

7. *Belonidium parasiticum* C. et M. Grev. XXII, p. 68. 2609

*Hab.* in subiculo Asterinæ ad folia Torrietie trifol-

liatæ(?). Queensland Australiæ. — Ascomata minutissima alba; asci clavati; sporidia  $22 \times 4$ , 3-septata, hyalina.

8. *Belonidium biatorinum* Rehm Disc. p. 685 (*Belonium*).

2610

*Hab.* in ramulis siccis Laricis et Rubi fruticosi, in Germania. — Ascomata 0,5–1 mm. lat., albida, disco roseo; asci  $80-90 \times 9-12$ ; sporidia  $10-12 \times 4-5$ , 1-septata, 2-guttata, hyalina. An *Helotiellæ* species?

Sect. 5. Scolecosporeæ.

**GORGONICEPS** Karst. — Syll. VIII, p. 504, X, p. 30. — Cfr. *Belonidii* species.

1. *Gorgoniceps rubicola* (Pat.) Sacc. *Mollisia rubicola* Pat. Bull. Soc. Myc. 1893, p. 146.

2611

*Hab.* in foliis Rubi spec., Milegalli Æquatoriæ. — Ascomata 0,5 mm. diam., albido-pellucida, glabra, brevissime stipitata; asci  $120-130 \times 5$ ; sporidia filiformia, continua,  $120 \times 1-2$ , hyalina.

2. *Gorgoniceps Taveliana* Rehm Disc. p. 691.

2612

*Hab.* in cortice secedenti Pini silvestris, pr. Münster Germaniæ (v. TAVEL). — Ascomata 0,1–0,2 mm. diam., brevissime stipitata, brunneo-rubentia; asci  $120-130 \times 10-14$ ; sporidia  $60-80 \times 3-5$ , pluriseptata, hyalina.

**ERINELLA** Sacc. — Syll. VIII, p. 507, X, p. 30. — Cfr. *Belonidii* species.

1. *Erinella bicolor* Pat. Bull. Boiss. 1895, p. 65.

2613

*Hab.* in foliis languidis arboris ignotæ, San Jorge Æquatoriæ. — Ascoma 0,3 mm. diam., album, tomentellum, disco aurantiaco; asci  $100-120 \times 5-6$ ; sporidia asci long.,  $1,5-2 \mu$ . cr. multiseptata.

2. *Erinella Polyepidis* Pat. Bull. Soc. Myc. 1892, p. 126.

2614

*Hab.* in pagina inf. foliorum Polyepidis, Corazon Æquatoriæ (LAGERHEIM). — Ascomata  $350-400 \mu$ . diam., stipitata, candida, ciliata; asci  $60-70 \times 4$ ; sporidia  $45-50 \times 4$ , obscure 7-septata, hyalina.

3. *Erinella andina* Pat. Bull. Soc. Myc. 1893, p. 146.

2615

*Hab.* in caulibus herbaceis, Quito Æquatoriæ (LAGERHEIM). — Ascomata 0,2–0,5 mm. diam., albo-tomentosa, disco dilute ochraceo; asci  $90 \times 10$ ; sporidia  $20-30 \times 4$ , 3-septata.

4. *Erinella Ericæ* (Roll.) Sacc., *Mollisia* Roll. Bull. Soc. Myc. 1891 p. 212, t. XIV, f. 4.

2616

*Hab.* in ramis emortuis *Ericæ arboreæ*, Golfe Jouan Galliæ merid. — Ascomata 1 mm. lat., olivaceo-fusco-pilosa, disco albido; asci 70–80  $\approx$  10–12; sporidia 40  $\approx$  2,5, pluriguttata, hyalina. — Comparanda cum *Godroniæ* speciebus.

5. *Erinella lutea* Phill. Grev. XIX, p. 61.

2617

*Hab.* ad cortices arborum, Victoria Australiæ. — Breviter stipitata, albo-pilosa, demum flavido-brunnea, 1–4 mm. lat.; asci late clavati; sporidia 76–102  $\approx$  5–6, multiseptata.

6. *Erinella albo-sulphurea* Pat. Bull. Soc. Myc. 1892, p. 50.

2618

*Hab.* in caryopsidibus putridis *Bambusæ*, Tonkin (Bon). — Ascomata 0,5–1 mm. diam., vix stipitata, sulphurea, villosa; asci 80  $\approx$  10; sporidia filiformia, ascum æquantia, 1  $\mu$ . cr., pluriseptata.

Fam. 3. Ascobolaceæ Boud.

Sect. 1. Phæosporæ.

ASCOBOLUS Pers. — Syll. VIII, p. 514, X, p. 31.

1. *Ascobolus candidus* Schröt. Krypt. Fl. Schles. III, p. 55.

2619

*Hab.* in fimo leporino, in Silesia. — Ascomata 0,5–1 lat., nivea, glabra; asci 120  $\approx$  22, clavati; sporidia 11–13  $\approx$  6–8, læte violacea, levia.

2. *Ascobolus asininus* Cooke et Massee Grev. XXI, p. 72.

2620

*Hab.* in fimo asinino, Kew London Britanniæ. — Ascomata 1–2 mm. diam., pallide olivaceo-succinea, vix rugulosa, margine crasso; asci 160–170  $\approx$  45–50; sporidia 40–45  $\approx$  21–23, rufo-brunnea, minute hexagono-areolata.

3. *Ascobolus marginatus* Massee Grev. XXII, p. 98.

2621

*Hab.* in fimo asinino, Kew London Britanniæ. — Ascomata ex hyalino olivacea, 0,5–1 mm. diam.; asci clavati; sporidia 15–16  $\approx$  6–7, omnino levia, rosea dein brunneo-purpurea, margine sub-elevato, obtuso.

4. *Ascobolus Phillipsii* Berk., Cooke Austr. Fungi n. 1450, fig. 164.

2622

*Hab.* in fimo vaccino, Queensland Australiæ. — Ascomata 3–5 mm. diam., levia, cerina dein fulva, disco cinereo; asci clavati; sporidia 21–29  $\approx$  11–13, omnino levia, brunnea.

5. *Ascobolus amethystinus* Phillips Grev. IV, p. 84.

2623

*Hab.* ad terram arenosam udam, Shrewsbury Britanniæ. — Ascomata verrucosa, purpurea, disco nigricante, margine serrato; asci subcylindrici; sporidia 28–30  $\approx$  15, acutiuscula, grosse verru-

cosa, purpurea. — Diversus, teste Cooke, ab *Humaria Phillipsii* Cooke, sed omissus (consulto?) in Phillipsii Brit. Discom.

6. **Ascobolus sarawacensis** Ces. in Cooke Grev. XXI, p. 74. 2624

*Hab.* in fimo Bubali, Sarawak, Borneo (BECCARI). — Ascomata 5 mm. diam., brunnea, extus granulosa, disco saturiore; asci tereti-clavati; sporidia 27-30 = 13-14, levia, violaceo-brunnea.

7. **Ascobolus piceus** (Limminghe) Cooke Grev. XXI, p. 74, *Peziza* 2625  
Limm. in herb.

*Hab.* ad terram arenosam (in Belgio?). — Ascomata 0,5 mm. diam., brunnea, levia, disco carneo; asci subclavati; sporidia 30-32 = 12, rufo-brunnea, levia — Cl. Dr. Ludwig *Ascobolus Costantini* Roll. invenit pr. Greiz ex fluxu umbrino mycetoideo Fagorum orientem. Cfr. Ludw. Ein neuer Pilzfluss der Waldbäume und der *Ascobolus Costantini* in Forstl. naturw. Zeitschr. 1893, n. 1.

**DASYOBOLUS** Sacc. Syll. VIII, p. 523, ut subgen. (Ety. *dasys* pilosus, quasi *Ascobolus pilosus*). — Ascomata pilosa, setosa v. ciliata, asci et sporidia *Ascoboli*. — Accedentibus novis et perspicuis typi speciebus, genus distingui meretur, quod præ *Ascobolo* se fert ut *Lasiobolus* præ *Ascophano*. — Species præcipuæ: **Das. immersus** (Pers.) Sacc., **Das. porphyrosporus** (Hedw.) Sacc., **Das. brunneus** (Cooke) Sacc.

1. **Dasyobolus barbalus** (M. et Cr.) Sacc. *Ascobolus* Massee et Crossl. 2626  
Grev. XXII, p. 97.

*Hab.* in fimetis Britanniae. — Ascomata 1 mm. diam., flavida, extus præcipue margine brunneo-setosa, disco aurantio-purpureo; asci cylindrici; sporidia 16-18 = 9, violaceo-brunnea, reticulato-striata.

**ASCOPHANUS** Boud. — Syll. VIII, p. 528, X, p. 32.

1. **Ascophanus glaucellus** Rehm Disc. p. 1086. 2627

*Hab.* in stercore ferino, in silvis Franconiae et Saxoniae. — Ascomata 0,2-0,5 mm. lat., alba vel flava, glabra; asci 40-50 = 8-12; sporidia 6-9 = 3,5-4,5, hyalina, levia.

2. **Ascophanus æruginascens** Karst. Hedw. 1893, p. 60. 2628

*Hab.* in fimo equino, in regione Vasaënsi Sandviken Fenniae. — Ascomata 0,5-1 mm. lat., virescenti-pallida, glabra; asci 100-200 = 12-13; sporidia 12-16 = 8, hyalina.

3. **Ascophanus lilacinus** Cooke Grev. XXI, p. 74. 2629

*Hab.* in fimo equino, New York Amer. borealis (GERARD). —

Ascomata 0,3-0,8 mm. diam., levia, pallide lilacina; asci fusoideo-clavati; sporidia levia,  $20 \approx 10$ , hyalina.

**THELEBOLUS** Tod — Syll. VII, p. 44, X, p. 34.

1. **Thelebolus** (*Trichobolus*) **pilosus** Schröt. Krypt. Fl. Schles. Pilze, 2630 III, p. 51.

*Hab.* in fimo Caprarum, in Silesia. — Ascomata 0,4-0,6 mm. lat., albida, dein læte brunnea, pilis patentibus hyalinis vestita; asci  $300 \approx 250$ , myriospori; sporidia  $9-11 \approx 7-8$ , hyalina.

*Fam.* 4. **Dermateaceæ** Fr.

*Sect.* 1. **Hyalosporæ.**

**MIDOTIS** Fries — Syll. VIII, p. 514.

1. **Midotis irregularis** (Schw.) Cooke in litt. = *Peziza irregularis* 2631 Schw. — Syll. VIII, p. 86.

2. **Midotis crispata** (B. et C.) Cooke Grev. XXI, p. 74. = *Lachnea* 2632 *crispata* (B. et C.) Sacc. Syll. VIII, p. 169.

**URNULA** Fr. — Syll. VIII, p. 548.

1. **Urnula Geaster** Peck 46 Rep. p. 39.

2633

*Hab.* ad terram, Texas Amer. bor. (UNDERWOOD). — Ascomata urceolata vel cupulata, 3-6 cm. lat., dense brunneo-pilosa, substipitata, disco albido; asci 700  $\mu$ . long., cylindrici; sporidia  $60-80 \approx 15$ , hyalina, sæpe 1-nucleata.

**DERMATEA** Fr. — VIII, p. 550.

1. **Dermatea umbrina** Cooke et Masee Grev. XXI, p. 72.

2634

*Hab.* in ramis emortuis Ulicis, Carlisle Britanniae. — Ascomata caespitosa, 1-2 mm. lat., fulvo-cinnamomea, pruinosa, disco umbrino-atro; asci cylindrici; sporidia  $15-16 \approx 7$ , ex hyalino brunneola.

2. **Dermatea simillima** E. et E. New Fung. in Proceed. Acad. N. Sc. 2635 Philad. 451.

*Hab.* in cortice Aceris rubri, Newfield N. J. Amer. bor. — Ascomata breve stipitata, flavido-olivacea, stipite 0,5 mm. long., e stromate carnosio rubido oriente; asci  $80-100 \approx 12-15$ ; sporidia  $14-16 \approx 6-7$ , hyalina.



3. *Dermatea Chionanthi* E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 148.

*Hab.* in ramis emortuis *Chionanthi virginicæ*, Delaware Amer. bor. — Ascomata cæspitosa, castanea, 0,5-1 mm. diam.; asci 100-110  $\approx$  18-20; sporidia 18-22  $\approx$  7-8, subhyalina, granulata.

4. *Dermatea fusispora* E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 148.

*Hab.* in ramis emortuis *Betulæ*, Orano Maine Amer. bor. — Ascomata 1 mm. diam., subolivacea, disco rubido, albo-pruinoso; asci 70-75  $\approx$  6; sporidia 15-20  $\approx$  2, hyalina, fusoidea.

**CENANGIUM** Fr. — Syll. VIII, p. 556, X, p. 36.

1. *Cenangium tuberculiforme* E. et E. New sp. Fung. Proceed. Acad. N. Sc. Philad. 452.

*Hab.* in ramis emortuis *Ilicis glabræ*, Newfield N. J. Amer. bor. — Ascomata 2-3 mm. diam., cæspitosa, flava, furfuraceo-squamulosa, disco pallide lateritio; asci 40-50  $\approx$  4-5; sporidia 5-6  $\approx$  2,5, binucleata, hyalina.

2. *Cenangium Salicis* Schröt. Pilzfl. Schles. II, p. 139.

2639

*Hab.* in ramis *Salicis auritæ*, in Silesia. — Ascomata 1, 5-2 mm. lat., ferrugineo-brunnea, disco flavido vel viridi-brunneo; asci 100-110  $\approx$  9-11; sporidia 11-13  $\approx$  6-7, hyalina.

3. *Cenangium quercicolum* Romell Fungi nov. v. crit. p. 75.

2640

*Hab.* in ramulis emortuis sed adhuc stantibus *Quercus*, Stockholm. — Ascomata 2-3-cæspitose aggregata, brunnea, farinacea, 2-3 mm. lat., disco pallido; asci octospori 75-90  $\approx$  6; sporidia 7, 5-9  $\approx$  2-3, continua, hyalina.

3. *Cenangium chrysoprasum* Cooke Grev. XXI, p. 74.

2241

*Hab.* in ligno denudato, in India. — Ascomata 2-3 mm. diam., olivacea, furfuracea, disco sulphureo; asci cylindræo-clavati; sporidia 6-8  $\approx$  2, hyalina.

4. *Cenangium leoninum* Cooke et Mass. Grev. XXI, p. 72.

2642

*Hab.* in ligno decorticato, Carlisle Britannicæ. — Ascomata cæspitosa, 2-4 mm. lat., aureo-fulva, furfuraceo-velutina; asci cylindræi; sporidia 9-10  $\approx$  4, hyalina, binucleata.

5. *Cenangium contortum* B. et C. Grev. XXI, p. 75.

2643

*Hab.* in ligno Corni, Alabama Amer. bor. — Ascomata 1-2 mm. lat., nigra, contorta, glabra; asci cylindrici; sporidia 8  $\times$  1,5, allantoidea, hyalina.

6. *Cenangium* (Phæangium) *patellatum* Cooke Grev. XXI, p. 75.

2644

- Hab.* in ramis *Aceris*, Maine Amer. bor. — Ascomata 2 mm. diam., brunnea, farinosa, disco nigro; asci clavati; sporidia 18-20  $\approx$  5-6, fulvo-brunnea vel succinea.
7. **Cenangium chlorescens** Schweinitz Syn. Am. n. 873, est, teste 2645  
Cooke Grev. XXI, p. 74, idem ac *C. fallax* B. et Rav., Syll. VIII, p. 576 (posterius), sed sporidia adhuc ignota.
8. **Cenangium tremellosum** Anzi in Rabenh. F. Eur. n. 1230 et **Ce-** 2646  
**nangium acerinum** Fr. Scler. suec. n. 293 et Summa p. 364 (suo quoque auctori dubium) mihi ignota manent.

**TYMPANIS** Tode — Syll. VIII, p. 578, X, p. 36.

1. **Tympanis Oxydendri** Ell. et Ev. Proc. Acad. Phil. 1894, p. 352. 2647  
*Hab.* in ramis emortuis *Oxydendri* arborei, Virginia Amer. bor. — Ascomata cæspitosa, 0,5-0,7 mm. diam., nigra; asci 110-130  $\approx$  15-18, polyspori; sporidia 2,5-3  $\times$  1, hyalina vel flavida.
2. **Tympanis picastra** B. et Curt. in Rav. Fung. Carol. III, n. 63. 2648  
*Hab.* ad corticem *Ilicis opacæ*, Alabama Amer. bor. — Diagnosim non vidi.

## Sect. 2. Didymosporæ.

**CENANGELLA** Sacc. — Syll. VIII, p. 587, X, p. 37.

1. **Cenangella violacea** E. et E. New sp. North Amer. Fung. in Pro- 2649  
ceed. Acad. S. N. Philad. 1893, p. 149.  
*Hab.* in ligno vetusto *Populi moniliferæ*, Kansas Amer. bor. — Ascomata 0,5 mm. diam., violaceo-nigra, sicca hysteriiformia; asci 35-50  $\approx$  15-20; sporidia 12-20  $\approx$  5-10, constricto-1-septata, hyalina.
2. **Cenangella Hartzii** Rostr. Till. Grönl. Svamp. p. 611. 2650  
*Hab.* in ramis decorticatis *Betulæ*, in Groenlandia. — Ascomata dense gregaria 0,2-0,5 mm. lat., brunnea, disco atro; asci 35-40  $\times$  7-9; sporidia 7-9  $\approx$  4-5, olivacea, 1-septata.
3. **Cenangella pruinosa** Rostr. Grönl. Svampe p. 17. 2651  
*Hab.* in ramis siccis *Vaccinii uliginosi* in Groenlandia. — Ascomata gregaria, albo-pruinosa 0,5 mm. diam.; asci 75-85  $\approx$  20-25; sporidia 1-septata, fusca, basi hyalino-papillata, 25-34  $\approx$  10-12.

## Sect. 3. Phragmosporæ.

**SCLERODERRIS** Fr. — Syll. VIII, p. 594, X, p. 37.

1. **Scleroderris majuscula** Cooke et Massee Grev. XXI, p. 73. 2652

*Hab.* in cortice quercino, Carlisle Britanniae. — Ascomata 5-7 mm. lat., rubro-brunnea, rugosa, glabra, disco atro-purpureo, stipite 2 mm. long.; asci cylindrici; sporidia 15 = 7, 3-septata, hyalina.

2. **Scleroderris orientalis** Ell. et Ev. Proc. Acad. Phil. 1894, p. 354. 2653

*Hab.* in ramis emortuis Cedri Libani cultæ, Newfield N. J. Amer. bor. — Ascomata cæspitosa, sordide alba, 300-400  $\mu$ . diam.; asci 55-60 = 12-14 p. sp.; sporidia 18-23 = 8-10, 3-septata, hyalina.

3. **Scleroderris Spirææ** Rehm in Sydow Mycoth. march. Cent. 39, 2654

n. 3851. *Cenangium Spirææ* (Schwein.) Berk.? — Ascomatibus gregariis, primitus immersis, seriatim per epidermidem haud maculatam quadridde fissam erumpentibus, singularibus vel 2-3 juxta positis, primitus glabris, apice punctiformi rotundis, dein laceratim apertis, disco urceolato-albido, margine tenuissimo fimbriato, extus fuscis, glabris, siccis furfuraceo-striatis, corrugatis 0,5-1,5 mm. diam., ascis cylindræis apice rotundatis, 8-sporis, 90 = 8-9; sporidiis bacillaribus v. elongato-fusiformibus, rectis v. subcurvatis 3-septatis ad septa interdum subconstrictis, hyalinis, 30-36 = 3, distichis; paraphysibus filiformibus hyalinis, 1  $\mu$ . lat.

*Hab.* in ramis Spirææ ariæfoliæ (?) in Germania.

## Sect. 4. Scolecosporæ.

**GODRONIA** Mont. — Syll. VIII, p. 601, X, p. 37.

1. **Godronia Juniperi** Rostr. Till. Grönl. Svamp. p. 611. 2655

*Hab.* in truncis Juniperi, in Groenlandia. — Ascomata atra, 1-2 mm. diam., deformia; asci 25-85 = 7-8; sporidia filiformia 35-40 = 2, continua, hyalina.

## Fam. 5. Bulgariaceæ Fr.

## Sect. 1. Hyalosporæ.

**OMBROPHILA** Fr. — Syll. VIII, p. 613, X, p. 38.

1. **Ombrophila trachycarpa** Phill. Grev. XIX, p. 61. — Subgregaria, 2656

sessilis, concava, glabra, extus horizontaliter corrugata, margine æquali, subincurvo, firma, cartilagineo-gelatinosa, ubique atro-rufa, intus pallidior; ascis cylindraceis, basi angustatis,  $202 \approx 14$ ; sporidiis octonis, ellipsoideo-fusoides, ample 1-guttatis, superficie granulatis,  $20-25 \approx 10-14$ ; paraphysibus validiusculis, apice inflatis, septatis.

*Hab.* inter muscos ad terram sabulosam, Victoria Australiæ. — Fungus 6-18 mm. diam. Affinis *O. terrestri*. — *Ombrophila marchica* Sydow Myc. march. n. 2248 mihi est ignota. — *Ombrophila* seu *Coryne rugipes* Cooke Syll. VIII, pag. 615, etiam ex ipso Cooke Grev. XX, p. 24, ascis caret.

**ORBILIA** Fr. — Syll. VIII, p. 621, X. p. 40.

1. **Orbilia flavido-rosella** Rehm Sydow Myc. march. in Cent. 39, n. 3846. 2657

— Ascomatibus gregariis per epidermidem fissam erumpentibus, primitus globosis dein disco rotundo patellariformi, tenuissime marginato apertis, dilute flavido-roseolis, parenchymatice contextis, 3-8 mm. diam.; ascis clavatis, apice rotundatis,  $45 \approx 5$ , 6-sporis; sporidiis oblongis v. subfusiformibus, obtusis, rectis v. subcurvatis, continuis, hyalinis,  $7-9 \approx 2$ , distichis; paraphysibus filiformibus, apice incrassatis — Sicca rosea v. carnea, margine corrugato dilutiore.

*Hab.* in caulibus *Cynanchi Vincetoxici* in Germania.

2. **Orbilia Caulophylli** E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 145. 2658

*Hab.* in caulibus emortuis *Caulophylli thalictroidis*, London Canada Amer. bor. (DEARNESS). — Ascomata e roseo aurantia, 0,5 mm. diam., extus puberula; asci 40-50  $\approx 5-6$ ; sporidia 5-6  $\approx 1,5$ , continua, hyalina.

3. **Orbilia Medicaginis** Faut. et Roum. Rev. Myc. 1892, p. 3 (*Calloria*). 2659

*Hab.* in caulibus siccis *Medicaginis sativæ*, Côte-d'Or Galliæ. — Ascomata aurantia, 1-4 mm. long.; asci 60  $\approx 8$ ; sporidia 9-12  $\approx 3,5-4$ , hyalina, continua.

4. **Orbilia flexuosa** Crossl. in Grev. vol. 22, p. 44. 2660

*Hab.* in corticibus putridis, pr. Halifax Britanniæ. — Ascomata 1-2 mm. lat., pallida, dein rufo-succinea; asci cylindracei; sporidia 8-10  $\approx 4-5$ , biguttata, hyalina.

5. **Orbilia scotica** Mass. Grev. XXII, 99. 2661

*Hab.* in lignis putridis, Aboyne Scotiæ. — Ascomata 0,7 mm diam., rubra, glabra, subdiaphana; asci clavati; sporidia 4  $\approx 1$ , continua hyalina.

6. **Orbilia pannorum** Schröt. Krypt. Fl. Schles. Pilze, III, p. 121. 2662

*Hab.* in pannis putridis, in Silesia. — Ascomata 0,5–1,5 diam., læte carnea vel rosea; asci 35–40  $\approx$  4–5; sporidia 9–11  $\approx$  0,5–1, hyalina, continua.

### Sect. 2. Phæosporæ.

**SARCOSOMA** Casp. — Syll. X, p. 42.

1. **Sarcosoma javanicum** Rehm Hedw. 1893, p. 226, tab. VIII, f. 6. 2663

*Hab.* ad ligna, in insulis Celebes. — Ascomata subsessilia, subglobosa, castaneo-nigra, 2–3 cm. diam., disco cinereo; asci 300  $\approx$  18–21; sporidia 27–30  $\approx$  12–14, ex hyalino fuscidula, levia.

### Sect. 3. Didymosporæ.

**CALLORIA** — Syll. VIII, p. 621.

1. **Calloria Galeopsidis** Schröt. Krypt. Fl. Schles. III, p. 122. 2664

*Hab.* in caulibus emortuis Galeopsidis Tetrarit, in Silesia. — Ascomata 0,5–1,5 mm. lat., aurantiaca, brunneo marginata; asci 40–50  $\approx$  5–6; sporidia 9–13  $\approx$  6, hyalina, dein plasmate bipartito.

2. **Calloria quitensis** Pat. Bull. Soc. Myc. 1892, p. 126. 2665

*Hab.* in pag. inf. foliorum viventium Galii sp., Magdalena, Guapolo Æquatoriæ (LAGERHEIM). — Ascomata 0,5 mm. diam., læte coccinea; asci 60  $\approx$  10; sporidia hyalina, 1-septata, 8–10  $\approx$  3–4. — De *Calloria luteola* Roum. Fungi gall. n. 1671 et *C. mellea* Roum. F. Gall. n. 1672 nihil eruere potui. — Ad genus *Calloriam* spectat, teste Karst. Hedw. 1892, p. 132, *Phacidium Calthæ* Phill. — Syll. VIII, p. 720.

### Sect. 4. Phragmosporæ.

**CORYNE** Tul. — Syll. VIII, p. 641, X, p. 43.

1. **Coryne Faberi** (J. Kunze) Rehm Discom. p. 487, *Calloria* J. Kunze 2666  
in herb.

*Hab.* in cortice interiore Piri Mali et in sarmentis Rubi in Germania. — Ascomata 0,2 mm. diam., flavida v. flavo-brunneola; asci 70–75  $\approx$  12–14; sporidia 18–21  $\approx$  5–6, hyalina, granulosa, 3–7-septata.

## Fam. 6. Stictidaceæ Fr.

## Sect. 1. Hyalosporæ

**NÆVIA** Fr. — Syll. VIII, p. 658, X, p. 45.

1. **Nævía seriata** (Lib.) Fuck. — Syll. VIII, p. 663. — Var. **spectabilis** Fautr. Rev. mycol. 1894, p. 169. 2667

*Hab.* in foliis Caricis hirtæ, Côte-d'Or Galliæ. — Ascomata hypophylla, epidermide cruentata, rupta cincta; asci 40-50  $\approx$  6-8; sporidia continua 8-10  $\approx$  3-4, hyalina, biguttata.

2. **Nævía Luzulæ** Sacc. Myc. Sib. II n. 30. — Ascomatibus dense seriatis gregariis, subcutaneo-erumpentibus, e globoso patellatis, ore sensim ampliore subrotundo, sordide melleis, 150-200  $\mu$ . d., epidermide inæqualiter fissa cinctis; ascis cylindræis, brevissime stipitatis, 40-45  $\approx$  5, apice breve obtuseque tenuatis, 4-(8?)-sporis; paraphysibus filiformi-clavulatis, raro furcatis; sporidiis anguste tereti-clavatis, deorsum acutatis, curvis, 12-15  $\approx$  1,5-2, hyalinis, continuis, vix plasmate diviso. 2668

*Hab.* in foliis emortuis Luzulæ pilosæ in pratis alpinis pr. M. Borus Sibiriae (MARTIANOFF). A *Nævía Tofieldiæ* Rehm et *N. seriata* (Lib.) Fuck. forma et magnitudine sporidiorum imprimis diversa.

3. **Nævía piniperda** Rehm Hedw. 1892, p. 302. 2669

*Hab.* in foliis emortuis Pinorum, in Saxonia (KRIEGER). — Ascomata 0,2-1 mm. diam., viridulo-grisea, sicca fumosa; asci 60  $\approx$  9; sporidia 12-14  $\approx$  4-4,5, hyalina, demum 1-septata.

**BRIARDIA** Sacc. — Syll. VIII, p. 663.

1. **Briardia Blyttiana** Rostr. Bidr. Ascom. Dovr. p. 4. 2670

*Hab.* in caulibus Astragali oroboidis, Dovre Norvegiæ. — Ascomata 0,5-2 mm. long., hysteroidea, succinea, fusco marginata, longe seriata; asci 54-64  $\approx$  9; sporidia 8-9  $\approx$  5.

## Sect. 2. Didymosporæ.

**DIPLONÆVIA** Rehm — Syll. VIII, p. 666.

1. **Diplonævia melaleuca** E. & E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 150. 2671

*Hab.* in trunco decorticato Populi, Montana Amer. bor. (AN-

DERSON). — Ascomata 1 mm. diam., nigricantia, margine albo-fimbriata, disco livido; asci 75-85  $\approx$  6-8; sporidia 12-15  $\approx$  3, 1-septata, hyalina.

### Sect. 3. Phragmosporæ.

**PROPOLIDIUM** Sacc. — Syll. VIII, p. 667.

1. *Propolidium fusco-cinereum* E. et E. New Sp. North Amer. Fung. 2672 in Proceed. Acad. S. N. Philad. 1893, p. 151.

*Hab.* in cortice emortuo Salicis, Canada Amer. bor. (DEARNESS). — Ascomata 1-1,5 diam., ardesiaca, anguste albo-marginata; asci 50-60  $\approx$  12-15; sporidia 3-septata, hyalina, 15-23  $\approx$  3-3,5.

**XYLOGRAMMA** Wallr. — Syll. VIII, p. 677.

1. *Xylogramma Holoschœni* (De Not.) Sacc. *Protopolis* De Not. Erb. 2673 critt. ital. II, n. 439.

*Hab.* in calamis siccis *Scirpi Holoschœni* pr. *Parmam* Ital. bor. — Erumpens, atrum hysteriiforme, oblongatum, disco fusco; asci octospori, clavati; paraphyses clavatæ; sporidia fusoides, 20-25  $\mu$ . long., 2-4-nucleata, dein 3-septata, hyalino-luteola, loculis polaribus multo minoribus. Ad *Phragmonæviam hysterioridem* nec non ad gen. *Gloniellam* valde accedit et rursus comparanda species.

**ODONTOTREMA** Nyl. — Syll. VIII, p. 679, X, p. 46.

1. *Odontotrema Pini* Romell Fung. novi v. crit. p. 75.

2674

*Hab.* in ligno nudo ramorum *Pini silvestris* prope Stockholm. — Ascomata sparsa, depresso-globosa, 0,5-0,6 mm. diam., ore rotundo, extus rufo-fusca, intus rubella; asci 50-60  $\approx$  9; sporidia allantoidea, 12-15  $\approx$  1,5-2, hyalina, 2-4-guttulata, demum spurie 1-septata.

### Sect. 4. Scolecosporæ.

**STICTIS** Pers. — Syll. VIII, p. 681, X, p. 46.

1. *Stictis Chrysopsis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 353.

2675

*Hab.* in ramis emortuis *Ceanothi integerrimi*, Washington Amer. bor. — Ascomata 1-1,5 mm. diam., disco aurantiaco; asci 200-225  $\approx$  8-10; sporidia filiformia, ascum subæquantia, multinucleata, hyalina, 1,5-2  $\mu$ . cr.



2. *Stictis schizoxylodes* E. et E. New. Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 150. 2676

*Hab.* in ramis emortuis coacervatis, Montana Amer. bor. (FITCH).

— Ascomata 1-1,5 mm. diam., cinereo-furfuracea, disco glauco; asci 55-65  $\approx$  6-7; sporidia 45-55  $\approx$  3, 4-6-pluriseptata, denique spiraliter convoluta, hyalina.

3. *Stictis compressa* E. et E. New. Fung. in Proceed. Acad. N. Sc. Philad. 1893, p. 453 et Journ. Myc. VII p. 131. 2677

*Hab.* in ramis emortuis Carpini et Ostryæ, Canada Amer. bor. (DEARNESS).

— Ascomata 1-2 mm. long., compressa, griseo-nigra, subclausa, apice tuberculum album centro olivaceo formantia; asci 300-400  $\approx$  8-10; sporidia multiseptata 1,5  $\mu$ . cr., hyalina «*An Ostropæ* sp.?»

4. *Stictis Opuntiae* Roll. Bull. Soc. Myc. 1891, p. 212, t. XIV, f. G. 2678

*Hab.* in cladodiis Cacti *Opuntiae*, Golfe Jouan Galliae merid.

— Ascomata 0,5 mm. lat., alba, margine stellatim fisso; asci 150-250  $\approx$  10; sporidia filiformia asci longit., multinucleata.

5. *Stictis Vaccinii* Ell. et Ev. Proc. Acad. Phil. 1894, p. 352. 2679

*Hab.* in foliis emortuis *Vaccinii* ovati, Washington Amer. bor.

— Ascomata hypophylla, 0,7-1 mm. diam., margine 3-4-lobo pallido; disco glauco; asci 70-75  $\approx$  6; sporidia 50-55  $\approx$  1,5-2, hyalina, multiguttulata.

6. *Stictis Myrti* Pat. Bull. Soc. Myc. 1893, p. 147. 2680

*Hab.* in pagina superiore foliorum *Myrti* dejectorum, Pulu-

lahua Æquatoriae. — Ascomata 0,3-0,6 mm. diam., disco cinereo; asci 90  $\approx$  8; sporidia 70  $\approx$  2, multiguttulata, hyalina.

7. *Stictis helicotracha* E. et E. New. Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 151. 2681

*Hab.* in foliis vaginisque *Arundinariae* tectæ, Starkville

Miss. Amer. bor. (TRACY). — Ascomata 0,5 mm. diam. atro-purpurea; asci 150-170  $\approx$  6, paraphysibus hamatis; sporidia filiformia 1-1,5  $\mu$ . cr., multiseptata. — *Stictis Loniceræ* Mont., *Stictis Thierryana* Roum. Fung. Gall. n. 1854, *Stictis Berberidis* De Not. in herb. Kev., *Stictis epiphylla* Fr. Scler. Suec. mihi ignotæ manent.

# **SCHIZOXYLON** Pers. — Syll. VIII, p. 697, X, p. 47.

1. *Schizoxylon compositum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 353. 2682

*Hab.* in ramis emortuis *Quercus coccineæ* et *Symphoricarpi occidentalis*, New Jersey et Kansas Amer. bor. —

Discomycetæ, Phacidiacæ, Hyalosporæ, Pseudopeziza, 431  
Ascomata 0,7-1,5 mm. diam., albo-pruinosa, disco tandem olivaceo; asci 150-200  $\approx$  8-10; sporidia 100-150  $\approx$  3-4, in articulos 5-8  $\approx$  3-4 demum dilabentia.

**NÆMACYCLUS** Fuck. — Syll. VIII, p. 701, X, p. 47.

1. **Næmacyclus culmigenus** E. et E. New Sp. North Amer. Fung. in 2683  
Proceed. Acad. S. N. Philad. 1893, p. 151.

*Hab.* in culmis emortuis Panici proliferi, Lquisiana Amer. bor. (LANGLOIS). — Ascomata anguste elliptica, 1-1,5 mm. long., disco livido-albo; asci 50  $\approx$  6; sporidia 40  $\mu$ . long., nucleolata, continua, lineari-fusoides.

#### Sect. 5. Dictyosporæ.

**PLEIOSTICTIS** Rehm — Syll. VIII, p. 703.

1. **Pleiostictis schizoxylodes** Rehm in Verhandl. bot. Ver. Brand. 2684  
1890, p. 66.

*Hab.* in cortice arborum, pr. Gabum Africæ. — Ascomata 0,5-1,3 mm. diam., lateritia, initio subclausa, disco subnigro; asci 200  $\approx$  36-45; sporidia 90-100  $\approx$  18-24, subhyalina, 24-30-septato-muriformia.

#### Fam. 7. Phacidiacæ Fr.

##### Sect. 1. Hyalosporæ.

**PHACIDIUM** Gr. — Syll. VIII, p. 709, X, p. 48.

1. **Phacidium macrocarpum** Pat. Bull. Soc. myc. 1892, p. 126. 2685

*Hab.* in foliis vivis Gynoxidis laurifoliæ, Pichincha Æquatoris (LÄGERHEIM). — Ascomata 0,5-1 mm. lat., in lacinias 4-5 subtriangulares fissa, disco nigro-brunneo; asci 130  $\approx$  55; sporidia 45-50  $\times$  20-25, hyalina.

**PSEUDOPEZIZA** Fuck. — Syll. VIII, p. 723.

1. **Pseudopeziza Piri** Peck 44 Rep. p. 30. 2686

*Hab.* in foliis dejectis Piri sambucifoliæ, Essex County Amer. bor. — Ascomata 350-500  $\mu$ . diam., epidermide lacinata cincta, brunneo-nigricantia, disco griseo-albo; asci 50-60  $\mu$ . long., cylindracei; sporidia 10-15  $\mu$ . long., hyalina.

2. **Pseudopeziza Kriegeriana** Rehm in Krieger Fung. Saxon. exs. 2687  
Fasc. 18 n. 883, Hedw. 1894 p. (30) [nomen].
3. **Pseudopeziza divergens** (Desm.) Sacc. Syll. VIII, p. 724. Teste 2688  
Karst. Hedw. 1893, p. 60, sporidia sunt ellipsoidea 8-10  $\approx$  4, juxta  
specimina originalia Desm.
4. **Pseudopeziza Bistortæ** (DC.) Fuck. — Syll. VIII, p. 723 a cl. Juel 2689  
Mykol. Beitr. II, p. 498, c. icone, ad novum genus *Pseudorhytisma*  
elevatur et accurate illustratur. Asci 140  $\approx$  12-14; sporidia 13  $\approx$  6.

## Sect. 2. Didymosporæ.

**COCCONIA** Sacc. — Syll. VIII, p. 738, X, p. 50.

1. **Cocconia Sellowii** Henn. Fung. bras. II p. 525. 2690

*Hab.* in foliis Parinarîi (?), in Brasilia (SELLOW). — Ascomata  
epiphylla, dendritico-ramosa, costata; asci 70-105  $\approx$  22-28; sporidia  
20-26  $\approx$  10-12, fusco-brunnea, constricto-1-septata.

## Sect. 3. Phragmosporæ.

**SPHÆROPEZIA** Sacc. VIII, p. 740.

1. **Sphæropezia coloradensis** Ell. et Ev. Proc. Acad. Phil 1894, p. 353. 2691

*Hab.* in caulibus decorticatis *Potentillæ fruticosæ*, Co-  
lorado Amer. bor. (CRANDALL). — Ascomata 0,7 mm. diam., mar-  
gine fimbriato-lacero; asci 45-50  $\times$  5-6; sporidia 10-14  $\approx$  3-3,5,  
2-5-septata, hyalina.

## Sect. 4. Scolecosporæ.

**COCCOMYCES** De Not. — Syll. VIII, p. 744, X, p. 51.

1. **Coccomyces Delta** (Kunze) Sacc. Flor. myc. lusit. p. 13, *Phaci-* 2692  
*dium Delta* Kunze in Linnæa V (1830) p. 551, *Phacidium tri-*  
*gonum* Thüm. nec Rehm.

*Hab.* in utraque pagina foliorum emortuorum Lauri cana-  
riensis in ins. Madera et Lauri nobilis, Bussaco Lusitaniæ.  
— Ascomata majuscula 1 mm. circ. diam., trigona, raro quadrata,  
nigra, 3-4-radiatim dehiscentia; asci cylindraceuti brevissime stipi-  
tati, apice rotundati 140-150  $\approx$  8-10, octospori; sporidia bacillaria  
deorsum attenuata, minute guttulata, 90  $\approx$  2, hyalina.

2. **Coccomyces salicinus** E. et E. New Sp. North Amer. Fung. in 2693  
Proceed. Acad. S. N. Philad, 1893, p. 151 (*Coccophacidium*).

*Hab.* in ramis emortuis Salicis, Montana Amer. bor. (KELSEY).  
 — Ascomata 1 mm. diam., atrobrunnea, disco subcinereo; asci  
 75-80  $\times$  8; sporidia vermiform' fusoidea, 35-50  $\times$  3-3,5, hyalina,  
 7-10-pseudo-septata.

**RHYTISMA** Fr. — Syll. VIII, p. 752, X, p. 51.

1. *Rhytisma Loeseneriana* Henn. Fung. bras. Sep. Abdr. p. 525. 2694

*Hab.* in foliis Illicis dumosæ, pr. Montevideo (SELLOW, comm.  
 Dr. LOESENER). — Ascomata 1-2 mm. diam., carbonacæo-nigra, am-  
 phigena; asci 70-87  $\times$  18-21; sporidia 21-24  $\times$  4-6, 1-septata,  
 hyalina.

2. *Rhytisma symmetricum* Jul. Müll. Centralbl. 1894, vol. 57, p. 347. 2695

— Stromatibus atro-nitidis 1,5-5 mm. lat., 60 et amplius in quoque  
 folio; ascomatibus amphigenis circinatis, stromatis superficiem col-  
 liculosam reddentibus; ascis apice obtusis, octosporis, 135-162  $\times$   
 12-19; sporidiis filiformibus deorsum attenuatis, medio sæpe inflatis  
 30-108  $\mu$ . long.; paraphysibus apice incrassatulis.

*Hab.* in foliis Salicis purpureæ in Germania.

3. *Rhytisma autumnale* Schröt. Pilz. Schles. II. p. 173. 2696

*Hab.* in foliis Salicis purpureæ, in Silesiæ pluribus locis.  
 — Stromata 2-5 mm. lat., nigro-picea, pustulosa, disco nigrican-  
 te; asci 120-150  $\times$  10-15; sporidia 80-100  $\times$  1,5 hyalina.

4. *Rhytisma Leucothoës* P. Henn. Fung. goyaz. p. 113. 2697

*Hab.* in foliis vivis Leucothoës, Goyaz Brasiliæ (ULE). —  
 — Stromata epiphylla, 3-5 mm. diam., vesiculosa, atra, dein rimosa,  
 asci 80-100  $\times$  18-24; sporidia 23-30  $\times$  8-13, flava. E subgenere  
*Criella*.

## Fam. 8. Patellariaceæ Fr.

### Sect. 1. Hyalosporæ.

**PATINELLA** Sacc. — Syll. VIII, p. 769, X, p. 52.

1. *Patinella macrospora* Mass. in Grev. vol. 22, p. 43 (1893). 2698

*Hab.* in ligno putri, Halifax Britanniae (CROSSLAND). — Asco-  
 mata 1-1,5 mm. diam., nigricantia; asci cylindrici; sporidia 11-12  
 $\times$  6-7, levia, hyalina.

2. *Patinella jecorina* (Berk.) Cooke in Grev. XXI, p. 75 *P. Carteri* 2699  
 Berk. l. c.

*Hab.* in ligno putri in ins. Admiralty. — Ascomata 3-5 mm.

434 Discomycetæ, Patellariaceæ, Phragmosporæ, Patellaria.  
lat., fumoso-brunnea, disco nigro; asci cylindrici; sporidia 7-8 × 4,  
pallide succinea.

3. *Patinella stenotheca* Karst. Hedw. 1892, p. 132 (*Patinellaria*). 2700

*Hab.* in ligno Betulæ, ad Mustiala Fennicæ. — Ascomata 0,2-0,4 mm. lat., nigricanti-olivacea, disco olivaceo pallido; asci 50-55 × 5-6; sporidia 6-10 × 2, continua, hyalina.

4. *Patinella vagans* E. et E. New Fung. in Proceed. Acad. N. Sc. 2701  
Philad. 1893, p. 452.

*Hab.* in ramis emortuis Linderæ Benzoin et caulibus Eupatorii sessilifolii, Delaware Amer. bor. — Ascomata 0,2-0,3 mm. diam., pallide carnea, saturatius marginata; asci 40-45 × 6-7; sporidia 5-7 × 4-6, flavido-hyalina, 1-binucleata.

5. *Patinella Crandallii* Sacc. *P. macrospora* Ell. et E. Proc. Acad. 2702  
Phil. 1894, p. 354, nec Massee (1893),

*Hab.* in caulibus emortuis Gei Rossii, Colorado Amer. bor. (CRANDALL). — Ascomata 0,7 mm. diam., olivaceo-nigra; asci 100-100-110 × 15-20; sporidia 20 × 10, binucleata, hyalina; paraphyses apice capitatae, olivaceæ.

**HETEROSPHERIA** Grev. — Syll. VIII, p. 775. — Inquirendæ *Het. phacidiioides* Fries Summa Scand. p. 365 et *Het. Brunaudiana* Roum. F. Gall. n. 1949, quarum diagnoses non vidi.

### Sect. 2. Didymosporæ.

**KARSCHIA** Körb. — Syll. VIII, p. 779, X, p. 56.

1. *Karschia sphaerioides* E. et E. New Fung. in Proceed. Acad. N. Sc. 2703  
Philad. 1893, p. 453.

*Hab.* in ramis emortuis decorticatis, New-Jersey Amer. bor. — Ascomata 150-200 µ. diam., nigra, disco albido; asci 25-30 × 8-10; sporidia 8-10 × 3-3,5, pallide brunnea, 1-septata, constrictula.

### Sect. 3. Phragmosporæ.

**PATELLARIA** Wahl. — Syll. VIII, p. 786. — *P. ferruginea* C. et E. Grev. V, p. 91, ex lapsu calami sub nom. *P. fuliginæ* inscribitur in Syll. VIII, p. 787, quod corrigendum. — *Pat. aureo-coccinea* B. et C. in Ell. N. A. F. n. 63 (in culmis Andropogonis), *Pat. difformis* Schw. in herb. Kew. et *Pat. holomelæna* Mont. in herb. Kew., inquirendæ sunt; earum diagnosim non vidi.

## Sect. 4. Dictyosporae.

BLITRYDIUM De Not. — Syll. VIII, p. 802.

1. *Blitrydium megalosporum* Clem. Bot. Surv. Nebr. Rep. III, 1893, p. 9. 2704

*Hab.* in ramis decorticatis Fraxini viridis, Saltillo Nebraska Amer. bor. — Ascomata 0,5–1,5 mm. diam., nigra; asci 140–175  $\approx$  30–40; sporidia 12–15-septato-muriformia, flavido-brunnea, 50–72  $\approx$  20–25.

2. *Blitrydium Symphoricarpi* E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 1893, p. 453. 2705

*Hab.* in ramis emortuis Symphoricarpi vulgaris, Kansas Amer. bor. (BARTHOLOMEW). — Ascomata ardesiaco-nigra, 0,5–1 mm. diam., initio pilosula; asci 120–130  $\approx$  30–35; sporidia 35–40  $\approx$  16–24, multi-septato-muriformia, brunneo-flava.

3. *Blitrydium Sabalidis* E. et E. New Sp. North. Amer. Fung. in Proceed. S. N. Philad. 1893, p. 150. 2706

*Hab.* in foliis subvivis Sabalidis Palmetto, Louisiana Amer. bor. (LANGLOIS). — Ascomata 250  $\mu$ . diam., nigra, disco fumoso-griseo; asci 40–50  $\approx$  15–20; sporidia 4-septata, parce muriformia, brunneo-flava, 15–20  $\approx$  6–7.

SCUTULARIA Karst. — Syll. VIII, p. 807.

1. *Scutularia multiguttulata* Rostr. Beihefte Bot. Centralbl. 1893, p. 4. 2707

*Hab.* in ligno fagineo, in Dania. — Ascomata atro-brunnea, convexula; asci 120–140  $\approx$  10–12; sporidia 75–90  $\approx$  3–4, hyalina, multiguttulata.

## Fam. 9. Gymnoascaceae Bar.

## Subfam. Exoasceae SADEB. \*)

EXOASCUS Fuck. — Syll. VIII, p. 816, X, p. 67.

1. *Exoascus Rostrupianus* Sadeb. Die paras. Exoasc. pag. 45, tab. I, 2708 f. 15–17.

*Hab.* in foliis Pruni spinosae, in tota fere Europa. — Tu-

\*) Cl. SADEBECK in opere eximio *Die paras. Exoasc.* Hamb. 1893 cum 3 tab. dupl., Exoasceas parasiticas rursus accuratissime scrutavit et dispositionem partim reformavit.

mores bullosos gignit.; asci 35-50  $\approx$  7  $\approx$  8; cellulæ basilares 10-16  $\approx$  2-6; sporidia 6-7  $\approx$  3-4, octona.

2. **Exoascus communis** Sadeb. Die paras. Exoasc. p. 47, t. I, f. 10 2709  
(A-C).

*Hab.* in fructibus Pruni americanæ, P. pumilæ et P. maritimæ, in Amer. bor. — Tumores gignit.; asci 30-40  $\approx$  8; cellulæ basilares 15-20  $\approx$  3-5; sporidia 5  $\approx$  3-4, typice octona.

3. **Exoascus acericola** Massal. Nuova contr. micol. veron. pag. 27, 2710  
t. III, f. 4 (*Taphrina*).

*Hab.* in foliis Aceris campestris in agro Veronensi. — Non deformans; asci 16-20  $\approx$  8, typice 8-spori; sporidia subglobosa 2,5-3,5  $\mu$ . diam. —  $\beta$ . **Pseudoplatani** Massal. l. c.: asci epiphylli, 18-26  $\approx$  7-10. In foliis Aceris Pseudoplatani in agro Veronensi.

4. **Exoascus Gilgii** Henn. et Lindau in Hedw. 1893, p. 156 cum ic. 2711  
(*Taphrina*).

*Hab.* in ramulis Pruni Cerasi, Grossbeeren Germaniæ. — Asci 30-50  $\approx$  12; cellulæ basilares 6-13  $\approx$  5-9; sporidia typice octona sed germinatione etiam plura, 6-10  $\approx$  5-7.

5. **Exoascus confusus** Atkins. in Bull. Torr. Cl. 1894, n. 8. 2712

*Hab.* in fructibus et petalis Pruni virginianæ in America boreali.

6. **Exoascus longipes** Atkins. in Bull. Torr. Cl. 1894, n. 8. 2713

*Hab.* in fructibus Pruni americanæ, ubi tumores gignit, in Amer. bor.

7. **Exoascus decipiens** Atkins. in Bull. Torr. Cl. 1894, n. 8. 2714

*Hab.* in foliis Pruni americanæ in Amer. bor. — Var. **superficialis** Atk. l. c. In ejusdem fructibus semi-maturis.

8. **Exoascus mirabilis** Atkins. in Bull. Torr. Cl. 1894, n. 8. 2715

*Hab.* in gemmis et alabastris Pruni angustifoliæ, P. hortulanæ, P. ~~Armoniacæ~~, in Alabama, Carolina inf. et Jowa. — Var. **tortilis** Atkins. l. c. In fructibus Pruni americanæ in Amer. bor. infer.

9. **Exoascus rhizipes** Atkins. in Bull. Torr. Cl. 1894, n. 8. 2716

*Hab.* in alabastris et fructibus Pruni trifloræ in Alabama.

10. **Exoascus varius** Atkins. Bull. Torr. Cl. 1894, n. 8. 2717

*Hab.* in foliis Pruni serotinæ in Alabama.

11. **Exoascus cecidomophilus** Atkins. Bull. Torr. Cl. 1894, n. 8. 2718

*Hab.* in gallis entomogenis ad fructus Pruni virginianæ, New York.



12. *Exoascus australis* Atkins. Bull. Torr. Cl. 1894, n. 8.

2719

*Hab.* in foliis *Carpini americanæ*, Alabama.

**TAPHRINA** Fr. — Syll. VIII, p. 812, X, p. 67.

1. *Taphrina marginata* Lamb. et Fautr. Rev. Myc. 1893, pag. 18 2720

(*Exoascus*).

*Hab.* in foliis *Cratægi Oxyacanthæ*, Côte-d'Or Galliæ. —  
Folia mycetis vi torquentur; asci 200-300  $\approx$  60, polyspori; sporidia  
2-3  $\approx$  0,7-1.

2. *Taphrina Cornu-cervi* Giesenhag. Hexenbes. Farn. p. 135, t. XII, 2721  
fs 1-6.

*Hab.* in foliis *Aspidii aristati* in Nepal et Ceylon Indiæ,  
ubi tumores gignit; asci 24  $\approx$  5-6; cellulæ basilares 4-6  $\approx$  2-4;  
sporidia non descripta.

3. *Taphrina? Laurencia* Giesenhag. Hexenbes. Farn. p. 150, t. XIII. 2722

*Hab.* in foliis *Pteridis quadriauritæ*, Ceylon et Assam  
Indiæ (SIMONS). — Tumores cæspitosos amplos gignit; asci 24  $\approx$  7;  
cellulæ basilares 19  $\approx$  6; sporidia non descripta.

*Subfam. 2. Gymnoasceæ* BAR.

**GYMNOASCUS** Bar. — Syll. VIII, p. 823, X, p. 71.

I. *Eu-Gymnoascus*. Asci octospori.

1. *Gymnoascus Bourquelotii* Boud. Bull. Soc. Myc. 1892, pag. 44, 2723  
t. VI, f. III.

*Hab.* ad floccos *Gossypii* liquore nutricao imbutos, in Gallia  
(BOURQUELOT). — Globosus 0,7-1 mm. lat., flavo-aureus; asci octo-  
spori 9-10,  $\mu$ . cr.; sporidia 5-6  $\approx$  3-4, lineatim tuberculosa, hyalino-  
lutescentia.

2. *Gymnoascus umbrinus* Boud. Bull. Soc. Myc. 1892, p. 43, t. VI, 2724  
f. II.

*Hab.* ad *Botrytem tenellam* in *Melolontha vulgari*,  
Montmorency Galliæ. — Minutissimus, globosus, umbrinus, 0,3-0,4  
mm. diam.; asci octospori, ovato-globosi, 10-2  $\mu$ . cr.; sporidia 3-4  
 $\mu$ . diam., hyalino-fulvella, levia.

3. *Gymnoascus luteus* (Zuk.) Sacc. *Penicillium luteum* Zukal Ascom. 2725  
p. 42, t. III, f. 3-13.

*Hab.* in gallis et in cortice *Quercus*, in Germania etc. —

Glomeruli ascorum 0,5-2 mm. diam., mycelio vitellino dein aurantiaco-rubro obducti; asci rubentes 8-9 = 7-8, octospori; sporidia 4,8 = 3,3, transverse quadrizonato-asperula. Sec. cl. ZUKAL *Penicillium aureum* v. Tiegh et *P. crustaceum* ad Gymnoasceas quoque spectant. *Cephalotheca* videretur hujus typi forma evolutior.

## II. *Rostrupiella* Sacc. Asci polyspori.

### 4. *Gymnoascus myriosporus* Rostr. Oest-Grönl. Svampe p. 12. 2726

*Hab.* in rimis et superficie ungularum avium rapacium in Dania. — Glomeruli sphæroidei, albi, floccosi, 0,5-1 mm. diam.; asci 45 = 20, myriospori; sporidia 6 = 3.

**AMAUROASCUS** Schröt. Krypt. Fl. Schles. III, p. 211 (Etym. *amauros* ater et *ascus*). — Glomeruli globulosi, arachnoidei; asci octospori; sporidia globoso-ovoidea, brunnea vel violacea.

### 1. *Amauroascus niger* Schröt. Krypt. Fl. Schles. III, p. 211. 2727

*Hab.* in fimo vetusto, in Silesia. — Glomeruli globosi 0,5-1,5 mm. diam., albi; asci 11-14 = 10-12; sporidia 4,5-6 = 3,5-4, brunnea, tenuiter punctata.

### 2. *Amauroascus verrucosus* (Eidam) Schröt. Krypt. Fl. II, p. 211, 2728 *Gymnoascus* Eidam in Schröt. l. c.

*Hab.* in corio putrescenti, in Silesia. — Glomeruli globulosi 3-10 mm. lat., albi dein brunneoli, floccosi; asci piriformes, octospori; sporidia 8,5-10  $\mu$ . diam., brunnea, grosse verrucoso-lineata.

**ARACHNIOTUS** Schröt. Krypt. Fl. Schles. III, p. 210 (Etym. *arachnion*, tela araneæ). — Glomeruli subglobosi, arachnoidei, ex hyphis æqualibus compositi; asci octospori; sporidia globosa vel ellipsoidea, hyalina, flava vel rubra.

### 1. *Arachniotus candidus* (Eidam) Schröt. l. c. pag. 210 *Gymnoascus* 2729 Eidam sec. Schröt. l. c.

*Hab.* in fimo vetusto vel substantiis putridis, in Germania. — Glomeruli 0,5-2 mm. lat., nivei, glabri; asci ovati; sporidia 3,5 = 3, hyalina, levia.

### 2. *Arachniotus aureus* (Eidam) Schröt. l. c. pag. 210, *Gymnoascus* 2730 Eidam sec. Schröt. l. c.

*Hab.* in vegetalibus putridis, in charta et pane udis, in Silesia. — Glomeruli globosi 0,5-1 mm. lat., aurei, hyphis subspiralibus; asci octospori; sporidia 3,5-4  $\mu$ . lat., aurea, minute verrucosa. — Ad hoc genus, teste Schröt., spectat quoque *Gymnoascus ruber* Van Tiegh. — Syll. VIII, p. 823.

**DIPODASCUS** Lagerh. in Pringsheim Jahrbuch 1892, p. 14 (Etym. *dis* duplex, *pous* pes et *ascus*). — Mycelium floccosum; asci elongati, basi fissi, v. si mavis, ex stipitibus binis oriundi, polyspori; sporidia globosa, continua, hyalina.

1. **Dipodascus albidus** Lagérh. Bull. Soc. bot. Franc. 1893, Rev. bibl. 2731 p. 88 et in Pringsh. l. c.

*Hab.* in fluxu ex trunco cæso Puyæ (ex Bromeliaceis) oriente, in Æquatoria. — Albus, floccosus; asci longe cylindricei sursum attenuati, sæpe curvi; sporidia ovoidea vel globosa, 4-5 × 3,5-4, hyalina, levia, ex asci vertice exeuntia.

*Fam. 10. Caliciaceæ Fr.*

**RÆSLERIA** Thüm. et Pass. — Syll. VIII, p. 826.

1. **Ræsleria pilacriformis** (Rehm) P. Henn. Helvell. Berlins p. 77, 273<sup>2</sup> *Coniocybe* Rehm Vorst. Pizfl. Westf. p. 36 et in Lindau Pilzfl. West. p. 36.

*Hab.* ad radices vivas Paliuri, Rosæ etc.; in Guestphalia et pr. Berlin. — Ascomata globosa, cinerea, stipite 3-5 mm. long., cylindraceo, fusco; asci 45-55 × 6-8; sporidia 6-7 µ. diam. vel 6-7 × 5, hyalina, levia, monosticha.

**SPHINCTRINA** Fr. — Syll. VIII, p. 829.

1. **Sphinctrina cæspitosa** Phillips in Gard. Chron. 7 aug. 1875. — 2733  
Diagnosim non vidi.
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## PHYMATOSPHERIACEÆ SPEG.

Syll. VIII, p. 843.

**MICROPHYMA** Speg. — Syll. VIII, p. 844.

1. **Microphyma Fuchsiæ** Pat. Bull. Boiss. 1895, p. 66.

2734

*Hab.* in pag. sup. foliorum *Fuchsiæ*, San Jorge Æquatoriæ. Hemisphaericum, 500 mm. lat. area rubra cinctum, fuligineum, intus album, gelatinosum; asci 110-130 × 25-30; sporidia 22-25 × 12, grosse verrucosa, 1-septata, hyalina.

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## ONYGENACEÆ FR. Syll. VIII, p. 861, X p. 80.

**ONYGENA** Pers. — Syll. VIII, p. 861.

1. **Onygena unguina** Rostr. Mycol. Meddel. p. 44. — Ascomatibus sessilibus, 2-4 mm. lat., leniter curvatis; griseo-albis, e stratu medullari albido oriundis, maturitate intus brunneo-rufis; ascis numerosis, subglobosis, 14-20  $\mu$ . diam.; sporis irregularibus, rotundato-polygoniis, 8-10  $\mu$ . diam.

*Hab.* in ungula equina, Seeland Daniæ.

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## TUBEROIDEÆ VITTAD. \*)

Syll. VIII, p. 868, X, p. 80

*Fam. 1. Elaphomycetaceæ Tul.*

**ELAPHOMYCES** Nees. — Syll. VIII, p. 863, V, p. 80.

1. **Elaphomyces plicatus** Hesse Hypog. Deutsch. II, p. 74, t. 14, f. 8-11, 2736 Syll. X, p. 80. — Ascomatibus furfuraceis, copiose et anguste gyroso-plicatis, pallidis; cortice tenuissimo, griseo; gleba primo rosea, dein atro-brunneo-variegata, capillitio violaceo; ascis e rotundato ovoideis, breviter stipitatis, 6-v. sæpius 8-sporis; sporidiis rufo-brunneis, subglobosis, minute asperatis, endosporio valde incrassato, stratoso, 21-25  $\mu$ . diam.

*Hab.* in provincia Hessen-Nassau Germaniæ. — Magnitudo nucis avellanæ v. juglandis.

2. **Elaphomyces hassiacus** Hesse Hypog. Deutsch. II, p. 73, t. 14, 2737 f. 12-14 et f. 21, f. 36, Syll. X, 80. — Velo luteo-brunneolo, minute verrucoso; cortice sordide albo-griseo, dein violaceo, demum brunneo-violaceo; gleba rosea, ob sporidia acervata atro-brunneo-variegata; ascis sæpe piriformibus, breviter stipitatis, sæpius 8-sporis; sporidiis globosis, sublevibus, demum rufo-brunneis, usque ad 30  $\mu$ . diam.

*Hab.* in provincia Hessen-Nassau Germaniæ. — Magnitudo ovium columbi.

3. **Elaphomyces rubescens** Hesse Hypog. Deutsch. II, p. 75, t. 14, 2738 f. 17, t. 22, f. 1-5, 7, 9, 15, 18-24, 29. — Velo carneo v. rubeo, verrucis validis, crebris, nigricantibus asperato; cortice griseo, demum fere brunneo, lignoso; gleba denique ex atro-brunneo nigricante, capillitio albido demum subroseo; ascis longe stipitatis, 8-sporis; sporidiis globosis, primo hyalinis, dein griseo-viridibus et demum atrobunneis, 13-14  $\mu$ . diam.

*Hab.* in provincia Hessen-Nassau Germaniæ. — Magnitudo nucis avellanæ v. juglandis.

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\*) Auctore doctore J. PAOLETTI.

*Fam. 2. Tuberaceæ Fries.*

**PHÆANGIUM** Pat. Journ. de Bot. 1894, p. 155. — Ascomata ovoidea, non gibbosa, parum rimosa, superficialiter brunneo-villosa; gleba homogœnea, non venosa, colore albo-lacteo. Caro solida nec aquosa, odor et sapor subnulli. — Gen. *Picoæ* et *Leucangio* proxim.

1. **Phæangium Lefeburei** Pat. l. c. — Ovoideum, fuscescens; ascis pedicellatis, sæpe rotundatis v. elongatis secundum sporidiorum numerum,  $70 \approx 30$  vel  $80 \approx 60$ ; sporidiis hyalinis, levibus, ovoideis, 1-guttulatis,  $28-30 \approx 24-26$ .

*Hab.* in Tunisia. — Ascomata 3 cm. long., 2 cm. lata.

**GENEA** Vittad. — Syll. VIII; p. 873.

1. **Genea Pazschkei** Bres. Mycet. austral. nov. in Hedw. 1893, p. 118. — Ascomatibus subglobosis v. ellipsoideis, duris, sublignosis, scabriusculo-subverrucosis, badiis, venis tabacinis eleganter reticulatis; cortice crasso, luride lutescente; gleba luride lutea, cavernulis polymorphis, tomentosis irregulariter dispositis, majusculis instructa; ascis cylindraceis, undulatis, basi attenuatis,  $240-260 \approx 30-33$ ; paraphysibus filiformibus, septatis, apice clavatis  $5-6 \mu$ . cr., sporidiis globosis, verruculosis, stramineis,  $22-27 \mu$ . diam.

*Hab.* subterranea v. subsuperficialis in Tasmania.

**HYDNOBOLITES** Tul. — Syll. VIII, p. 879, X, p. 80.

1. **Hydnobolites fallax** Hesse Hypog. Deutsch. II, t. 16, f. 26. — Minute gibberula, griseo-luteola, subfloccosa; gleba carnosa, ex albido grisea; ascis 8-sporis; sporidiis globosis, alveolatis,  $24-27 \mu$ . diam.

*Hab.* in prov. Hessen-Nassau Germaniæ. — Fungus a Papaveris ad Brassicæ seminum magnitudinem varians.

2. **Hydnobolites Tulasnei** Hesse Hypog. Deutsch. II, p. 47, Syll. X, p. 80. — Valde irregularis, gibbosa, rosea, demum carnea; gleba carnosa, ascomatis superficie subconcolore, cavernulis sinuosis perfossa; ascis 8-sporis; sporidiis globosis alveolatis, brunneo-flavis,  $21 \mu$ . diam.

*Hab.* in provincia Hessen-Nassau Germaniæ. — Magnitudo nucis avellanæ, raro major.

**STEPHENSIA** Tul. — Syll. VIII, p. 880.

1. **Stephensia arenivaga** C. et Masee Grev. XXI. p. 38. — Subglo-

bosa irregularis v. demum collapsa et cerebriformis, pallida, mollis, dein indurata; gleba molli, sordide alba, contracta, dein irregulariter lacunosa; ascis clavatis, coacervato-8-sporis; sporidiis globosis, levibus, hyalinis, 10  $\mu$ . diam.

*Hab.* in sabulosis Australiæ (MUELLER). — Fungus 4-6 cm. diam.

**TUBER** Mich. — Syll. VIII, p. 883, X, p. 81.

I. *Eu-Tuber*. — Sporidia reticulato-alveolata, ellipsoidea.

1. **Tuber exiguum** Hesse Hypog. II, p. 31, t. 16, f. 12, Syll. X, p. 81. 2744  
— Irregulare, leve, flavum; gleba sublignosa, primo grisea, dein flavida et demum sporidiis brunneo-rufo-marmorata, venis versiformibus percursa, aliis persistentibus anastomosantibus, aliis demum evanescentibus; ascis subovoideis, sessilibus v. stipitatis 1-3-sporis; sporidiis ellipsoideis v. ovoideis, alveolatis, 1-pluriguttatis, demum rufo-brunneis, 40-54  $\approx$  27-37.

*Hab.* in provincia Hessen-Nassau Germaniæ. — Fungus a pisi ad nucis avellanæ magnitudinem varians.

2. **Tuber scruposum** Hesse Hypog. Deutsch. II, p. 30, t. 16, f. 19, 2745 Syll. X, p. 81. — Irregulare, valide scruposo-gibbosum, sulphureum v. citrinum; gleba sublignosa, primo alba, dein luteola, demum sporidiis rufo-brunneis marmorata; ascis ovoideis, vix stipitatis, 2-4-sporis; sporidiis ex ovoideo ellipsoideis, minute alveolatis, pluriguttatis, rufo-brunneis, 27-32  $\approx$  23-27.

*Hab.* in provincia Hessen-Nassau Germaniæ. — Fungus a nucis avellanæ ad juglandis magnitudinem varians.

3. **Tuber De-Baryanum** Hesse Hypog. Deutsch. II, p. 21, t. 16, f. 9, 2746 Syll. X, p. 81. — Regulare, molle, omnino leve, atro-luteum, parce pallido-striatum; gleba primo albida, demum rufo-brunnea, venis unicoloribus numerosis, anastomosantibus omnino percursa; ascis late ovoideis, breviter stipitatis aut sessilibus, 2-3-rarissime 4-sporis; sporidiis ovoideis v. ellipsoideis, copiose minuteque guttulatis, alveolatis, 40-45  $\approx$  30-35.

*Hab.* in provincia Hessen-Nassau Germaniæ. — Fungus magnitudine nucis avellanæ v. minor.

II. *Sphaerotuber* Paol. — Sporidia reticulato-alveolata, globosa.

4. **Tuber murinum** Hesse Hypog. Deutsch. II, pag. 22, f. 16, f. 11, 2717 Syll. X, p. 81. — Ascomate crasso, murino, floccoso, striis latiusculis notato; gleba e rubente brunnea, venis albidissimis percur-



sa; ascis e globoso piriformibus, breviter lateque stipitatis, plerumque 3-4-sporis; sporidiis alveolatis, pluriguttulatis, e brunneo-luteo rufo-brunneis, subglobosis, 26-32  $\approx$  27.

*Hab.* in provincia Hessen-Nassau Germaniæ. — Fungus magnitudine nucis avellanæ v. minor.

III. *Oogaster* Corda. — Sporidia reticulo destituta, echinata, ellipsoidea.

5. *Tuber indicum* Cooke et Mass. *Grev.* XX, p. 67. — Globosum, irregulare, verrucis subhexagoniis asperatum, fuligineo-nigrum; gleba carnosæ, nigrescente, venis albidis gyrosis marmorata; ascis subglobosis, 2-4-sporis; sporidiis ellipsoideis, dense longeque aculeatis, minimis, brunneis, 15-18  $\times$  10-12, aculeis apice truncatis.

*Hab.* terra infossum Mussooree ad Himalaya Indiæ orientalis (DUTHIE). — Fungus 2-3 cm. diam.

6. *Tuber melanosporum* Vittad. — *Syll.* VIII, p. 894 — var. *moschatum* Ferry et H. Bonnet, *Chat. La Truffe* p. 43, t. 2. — Ascomatibus verrucis depressis, facile secedentibus; gleba venis albis, latis, apice gangliformibus, parum numerosis, linea saturatiore circumscriptis; ascis 4-5-sporis, subglobosis, basi areola rotundata præditis.

*Hab.* in Gallia. — Fungus ovi magnitudinem æquans, odore moschato.

7. *Tuber rutilum* Hesse *Hypog. Deutsch.* II. p. 13, t. 16, f. 5. *Syll.* X, p. 82. — Parce papillosum, fere usque ad maturitatem aurantiacum; gleba e brunneo-flavo rufo-brunnea, venis albo-griseis percursa; ascis stipitatis, 3-4-v. raro 5-sporis; sporidiis late ellipsoideis, crebre muricatis, maturis rufo-brunneis, 24-27  $\approx$  19-21.

*Hab.* in provincia Hessen-Nassau. — Magnitudo nucis avellanæ v. minor.

**TIRMANIA** *Chat. La Truffe* p. 80, f. 11-12 (Etym. a TIRMAN Algeriæ gubernatore). — Ascomata basi propria instructa, subgloboso-turbinata. Gleba continua, venis concoloribus notata. Asci ovoidei, crasse stipitati, 8-spori. Sporidia ellipsoidea, levia, hyalina. Genus inter *Terfeziam* et *Picoam* fere medium.

1. *Tirmania africana* *Chat. l. c.*, f. 11. — Ascomate turbinato, gibboso v. lobato, albo v. albido, sicco nunquam brunneo; gleba peridio concolore; ascis subpiriformibus, valide stipitatis; sporidiis octonis, oblongis, levibus, hyalinis, 18-20  $\times$  13-15.

*Hab.* in Algeria. — Fungus aurantii magnitudine.

2. **Tirmania Camboni** Chat. l. c. p. 81, f. 12. — Ascomate albo, præcipue ad anfractuositates et basi leniter striato; gleba primo venis ramosis, albidis marmorata; ascis  $120 \approx 80-90$ ; sporidiis guttulatis,  $22 \mu$ . long.

*Hab.* in Algeria.

**TERFEZIA** Tul. — Syll. VIII, 902.

1. **Terfezia Boudieri** Chat. La Truffe, p. 72, t. 14, f. 1. — Luteo-fuliginea, ovoideo-rotundata, basi breviter producta; gleba ascomate concolore; ascis 6-8-sporis; sporidiis globosis, minute et crebre granulatis,  $20-26 \mu$ . diam.

*Hab.* in Algeria. — Affinis *T. Leonis* sed sporidiis minute et crebre granulatis nec crasse verrucosis. — Var. **arabica** Chat. l. c. p. 74, t. 14, f. 2: sporidiis paullo majoribus,  $26-30 \mu$ . diam., asperitatibus crassioribus, rarioribus apice quadrangularibus.

2. **Terfezia Hafizi** Chat. La Truffe p. 78, t. 14. — Depresso-piriformis, gibboso-sulcata, brevissime stipitata; fere alba; gleba concolore; ascis sæpius rotundatis, breviter pedicellatis, 8-sporis; sporidiis tenuiter reticulatis,  $18-20 \mu$ . diam.

*Hab.* in Mesopotamia.

3. **Terfezia Claveryi** Chat. La Truffe p. 74, t. 14, f. 3. — Piriformis, breviter crasseque stipitata, luteola; gleba albo-luteola; ascis subrotundis, breviter stipitatis, 8-sporis; sporidiis minute reticulatis,  $22-23 \mu$ . diam.

*Hab.* in Syria. — Fungus magnitudine et forma fici, gleba pipere leniter redolens.

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## LABOULBENIACEÆ PEYR. \*)

Syll. VIII, p. 909, IX, p. 1130

I. Antherozoidia endogena

A. Antheridia pluricellularia

§ Species dioicæ.

**DIMORPHOMYCES** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 157. (Etym. *dimorphus* et *myces*).

1. **Dimorphomyces denticulatus** Thaxt. New Spec. Laboulb. in Proceed. 2756 Amer. Acad. p. 157.

*Hab.* in abdomine Falagriæ dissectæ, Massachusetts Amer. bor.

2. **Dimorphomyces muticus** Thaxt. New gen. and spec. Laboulb. p. 104. 2757

*Hab.* in Falagria dissecta, Maine et Mass. Amer. bor.

§§ Species monoicæ.

**CANTHAROMYCES** Thaxt. — Syll. IX, p. 1131.

1. **Cantharomyces pusillus** Thaxt. New gen. and spec. Laboulb. p. 100. 2758

*Hab.* in Trogophlæo, Maine et Mass. Amer. bor.

2. **Cantharomyces occidentalis** Thaxt. New Spec. Laboulb. in Proceed. 2759 Amer. Acad. p. 161.

*Hab.* in abdomine Bledii armati, Utha Amer. bor.

**EUCANTHAROMYCES** Thaxt. Notes on Laboulb. 1894, p. 480 (Etym. *eu bene, cantharos vas et myces*).

1. **Eucantharomyces Atrani** Thaxt. l. c. p. 481.

*Hab.* in Atrano pubescenti in Virginia Amer. bor. (T. PERGANDE).

2760

**HAPLOMYCES** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 159 (Etym. *haplos simplex et myces*).

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\*) Nova et ditissima adjumenta de mirificis Laboulbeniaceis ill. THAXTER denuo attulit, ad quæ lectorem mitto, indicem tantum hic præbens generum specierumque novarum.

1. **Haplomyces virginianus** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 160. 2761  
*Hab.* in abdomine Bledii emarginati, Virginia Amer. bor.
2. **Haplomyces texanus** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 160. 2762  
*Hab.* in abdomine et elytris Bledii rubiginosi, Texas Amer. bor.
3. **Haplomyces californicus** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 159. 2763  
*Hab.* in abdomine Bledii ornati, California Amer. bor.

**CAMPTOMYCES** Thaxt. New gen. and spec. Laboulb. p. 100 (Etym. *camptos curvus et myces*).

1. **Camptomyces melanopus** Thaxt. l. c. p. 101. 2764  
*Hab.* in Sunio proluxo, Maine et Mass. Amer. bor.

**PEYRITSCHIELLA** Thaxt. — Syll. IX, p. 1130.

1. **Peyritschella nigrescens** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 184. 2765  
*Hab.* in cruribus Philonthi debilis, Massachusetts Amer. bor.
2. **Peyritschella geminata** Thaxt. New gen. and spec. Laboulb. p. 101. 2766  
*Hab.* in Pterosticho luctuoso et P. patrueli, Maine Amer. bor.

**DICHOMYCES** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 183 (Etym. *dicha dupliciter et myces*).

1. **Dichomyces furcifer** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 184. 2767  
*Hab.* in abdomine Philonthi debilis, Massachusetts Amer. bor.
2. **Dichomyces princeps** Thaxt. Notes on Laboulb. 1894, p. 479. 2768  
*Hab.* in Philontho sordido, Massachusetts Amer. bor.
3. **Dichomyces inæqualis** Thaxt. New gen. and spec. Laboulb. p. 102. 2769  
*Hab.* in Philontho debili, Maine et Mass. Amer. bor.
4. **Dichomyces infectus** Thaxt. New gen. and Spec. Laboulb. p. 102. 2770  
*Hab.* in Xantholino obsidario, Waverly Mass. Amer. bor.

**HEIMATOMYCES** Peyr. — Syll. VIII, p. 915.

1. **Heimatomyces borealis** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 185. 2771

- Hab.* in cruribus Coleopterij cujusdam, Maine Amer. bor.
2. *Heimatomyces bidessarius* Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 185. 2772
- Hab.* in elytris *Bidessii granarii*, Maine Amer. bor.
3. *Heimatomyces aurantiacus* Thaxt. New gen. and Spec. Laboulb. 2773  
p. 103.
- Hab.* in *Desmopachria convexa*, Maine Amer. bor.
4. *Heimatomyces distortus* Thaxt. Notes on Laboulb. 1894, p. 477. 2774
- Hab.* in *Laccophilo maculoso*, Connecticut Amer. bor.
5. *Heimatomyces unciger* Thaxt. Notes on Laboulb. 1894, p. 478. 2775
- Hab.* in *Laccophilo maculoso*, Connecticut Amer. bor.
6. *Heimatomyces spiniger* Thaxt. Notes on Laboulb. 1894, p. 478. 2776
- Hab.* in *Laccophilo maculoso* Connecticut Amer. bor.
7. *Heimatomyces appendiculatus* Thaxt. New gen. and spec. Laboulb. 2777  
p. 106.
- Hab.* in *Laccophilo maculoso* in Amer. bor.
8. *Heimatomyces melanurus* Thaxt. l. c. 2778
- Hab.* in *Laccophilo hyalino* et *L. minuto* in Amer. bor.
9. *Heimatomyces rhynchostoma* Thaxt. l. c. 2779
- Hab.* in *Laccophilo maculoso* et *Hydroporo spurio*  
in Amer. bor.
10. *Heimatomyces lichanophorus* Thaxt. l. c. 2780
- Hab.* in *Laccophilo maculoso* in Amer. bor.
11. *Heimatomyces uncinatus* Thaxt. l. c. 2781
- Hab.* in *Laccophilo maculoso*, *Hydroporo spurio* in  
Amer. bor.
12. *Heimatomyces hyalinus* Thaxt. l. c. 2782
- Hab.* in *Laccophilo maculoso* in Amer. bor.
13. *Heimatomyces affinis* Thaxt. l. c. 2782
- Hab.* in *Laccophilo maculoso* et *Hydropori* spec. in  
Amer. bor.
14. *Heimatomyces simplex* Thaxt. l. c. 2784
- Hab.* in *Laccophilo maculoso* et *Hydroporo spurio*  
in Amer. bor.

*B. Antheridia unicellularia.*

§ Species dioicæ.

**AMORPHOMYCES** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad.  
p. 158 (Etym. *amorphus* et *myces*).

1. **Amorphomyces Falagriæ** Thaxt. New Spec. Laboulb. in Proceed. 2785  
Amer. Acad. p. 158.

*Hab.* in abdomine Falagriæ dissectæ, Massachusetts Amer. bor.

2. **Amorphomyces floridanus** Thaxt. New Spec. Laboulb. in Proceed. 2786  
Amer. Acad. p. 159.

*Hab.* in abdomine Bledii basalis, Florida Amer. bor.

§§ Species monoicæ.

**IDIOMYCES** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 162  
(Etym. *idios* peculiaris et *myces*).

1. **Idiomyces Peyritschii** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2787  
Acad. p. 162.

*Hab.* in abdomine Deleasteris dichroi, in Germania.

**CORETHROMYCES** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad.  
1893, p. 180 (Etym. *corethron* scopa et *myces*).

1. **Corethromyces setiger** Thaxt. New Spec. Laboulb. in Proceed. 2788  
Amer. Acad. p. 181.

*Hab.* in thorace Lathrobii nitiduli, Massachusetts Amer. bor.

2. **Corethromyces Cryptobii** Thaxt. New Spec. Laboulb. in Proceed. 2789  
Am. Acad. p. 181.

*Hab.* in Cryptobio bicolori, Pennsylvania Amer. bor.

3. **Corethromyces jacobinus** Thaxt. New Spec. Laboulb. in Proceed. 2790  
Amer. Acad. p. 181.

*Hab.* in parte super. abdominis Lathrobii jacobini, in California.

**RHADINOMYCES** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad.  
p. 179 (Etym. *rhadinus* subtilis et *myces*).

1. **Rhadinomyces pallidus** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2791  
Acad. p. 180.

*Hab.* in Lathrobio punctulato, L. angulari et L. fulvipenni, in Amer. bor. et Germania.

2. **Rhadinomyces cristatus** Thaxt. New Spec. Laboulb. in Proceed. 2792  
Amer. Acad. p. 180.

*Hab.* in Lathrobio nitidulo, Maine et Massachusetts Amer. bor.

**COMPSOMYCES** Thaxt. New gen. and Spec. Laboulb. p. 96 (Etym. *compos* elegans et *myces*).

1. **Compsomyces verticillatus** Thaxt. l. c. = *Cantharomyces* Thaxt. olim — Syll. IX, p. 1131.

**MOSCHOMYCES** Thaxt. New gen. and spec. Laboulb. p. 97 (Etym. *moschos* vitulus et *myces*).

1. **Moschomyces insignis** Thaxt. l. c. 2793  
*Hab.* in *Sunio prolixo*, Waverly Mass. Amer. bor.

**LABOULBENIA** Mont. — Syll. VIII, p. 909, IX, p. 1132.

1. **Laboulbenia australiensis** Thaxt. New Spec. Laboulb. in Proceed. 2794  
Amer. Acad. 171.

*Hab.* in *elytris Acrogenys hirsutæ*, in Australia.

2. **Laboulbenia Aspidoglossæ** Thaxt. l. c. p. 473. 2795

*Hab.* in *Aspidoglossa subangulata*, Kansas Amer. bor.

3. **Laboulbenia anceps** Thaxt. New gen. and sp. Lab. p. 107. 2796

*Hab.* in *Anchomeno viduo*, *A. albipede* et *Platyno extensicollis*, Am. bor.

4. **Laboulbenia Brachini** Thaxt. l. c. 2797

*Hab.* in *Brachino mexicano* et sp. ind., Mexico.

5. **Laboulbenia Catosci** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2798  
Acad. p. 164.

*Hab.* in *abdomine Catosci guatemalensis*, Mexico.

6. **Laboulbenia cornuta** Thaxt. Notes on Laboulb. 1894, p. 476. 2799

*Hab.* in *Bembidio complanulo*, Washington Amer. bor.  
(PARKER).

7. **Laboulbenia cristata** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2800  
Acad. p. 174.

*Hab.* in *elytris, abdomine et cruribus Pæderi variarum specierum* in Amer. bor., Mexico, Nicaragua et Austria.

8. **Laboulbenia confusa** Thaxt. Notes on Laboulb. 1894, p. 476. 2801

*Hab.* in *Bembidii* sp. Connecticut Amer. bor.

9. **Laboulbenia Clivinæ** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2802  
Acad. p. 169.

*Hab.* in *elytris, thorace et cruribus Clivinæ dentifemorata*, Mexico.

10. **Laboulbenia compacta** Thaxt. New gen. and sp. Lab. p. 107. 2803

*Hab.* in *Bembidii* spec. ind. in Amer. bor.

11. **Laboulbenia Coptodera** Thaxt. New Spec. Laboulb. in Proceed. 2804  
Amer. Acad. p. 168.



- Hab.* in elytris *Coptodermæ Championi*, Panama.
12. **Laboulbenia contorta** Thaxt. New gen. and sp. Lab. p. 107. 2805  
*Hab.* in *Platyno extensicollis* in Amer. bor.
13. **Laboulbenia curtipes** Thaxt. l. c. 2806  
*Hab.* in *Bembidio bimaculato* in Amer. bor.
14. **Laboulbenia compressa** Thaxt. New Spec. Laboulb. in Proceed. 2807  
 Amer. Acad. p. 165.  
*Hab.* in elytris et cruribus *Anisodactyli baltimorensis*,  
 Maine Amer. bor.
15. **Laboulbenia decipiens** Thaxt. Notes on Laboulb. 1894, p. 473. 2808  
*Hab.* in *Galerita æquinociali*, Guatemala.
16. **Laboulbenia europæa** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2809  
 Acad. p. 167.  
*Hab.* in *Chlænii*, *Calisti* et *Abtini* speciebus, in Europa.
17. **Laboulbenia filifera** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2810  
 Acad. p. 165.  
*Hab.* in elytris *Anisodactyli Harrisii*, *A. nigerrimi*  
 et *A. interpunctati* in Amer. bor.
18. **Laboulbenia Galeritæ** Thaxt. New gen. and sp. Lab. p. 108. 2811  
*Hab.* in *Galerita Jano*, *G. mexicana*, *G. atripede*,  
 Amer. bor.
19. **Laboulbenia gibberosa** Thaxt. l. c. 2812  
*Hab.* in *Platyno extensicollis* in Amer. bor.
20. **Laboulbenia Gyrinidarum** Thaxt. l. c. 2813  
*Hab.* in *Gyrini pluribus* speciebus in Amer. bor.
21. **Laboulbenia Hageni** Thaxt. Notes on Laboulb. 1894, p. 470. 2814  
*Hab.* in *Termete bellicosus* var. *mozambicus*, in Africa.
22. **Laboulbenia inflata** Thaxt. New gen. and sp. Laboulb. p. 108. 2815  
*Hab.* in *Bradycello rupestri*, Amer. bor.
23. **Laboulbenia Kunkelii** (Giard) Thaxt. J. c. p. 471, *Thaxteria Kunkelii* Giard Comptes rend. Soc. biol. sér. IX, vol. IV, p. 156. 2816  
*Hab.* in elytris et thorace *Mormolycis phallodis* in India.
24. **Laboulbenia longicollis** Thaxt. New Spec. Laboulb. in Proceed. 2817  
 Amer. Acad. p. 172.  
*Hab.* in elytris *Galeritæ leptodermæ*, Guinea.
25. **Laboulbenia melanotheca** Thaxt. l. c. p. 471. 2818  
*Hab.* in *Galerita mexicana*, Nicaragua.
26. **Laboulbenia macrotheca** Thaxt. l. c. p. 474. 2819  
*Hab.* in *Anisodactylo baltimorensi* et sp., Maine et  
 Bathurst Amer. bor.

27. *Laboulbenia mexicana* Thaxt. New Spec. Laboulb. in Proceed. 2820  
Amer. Acad. p. 171.

*Hab.* in elytris *Galeritæ mexicanæ*, *S. nigræ* et *S. æquinoctialis*, Mexico et Nicaragua.

28. *Laboulbenia minima* Thaxt. New Spec. Laboulb. in Proceed. Amer. 2821  
Acad. p. 175.

*Hab.* in elytris et cruribus *Calleidæ pallidipennis*, Panama.

29. *Laboulbenia Morionis* Thaxt. New Spec. Laboulb. in Proceed. 2822  
Amer. Acad., p. 169.

*Hab.* in elytris *Morionis*, Georgia, Mexico.

30. *Laboulbenia Oberthuri* Giard. in Thaxt. Not. Laboulb. 1894, p. 477. 2823

*Hab.* in *Orectogyro heroe*, Madagascar.

31. *Laboulbenia Pterostichi* Thaxt. New. Spec. Laboulb. in Proceed. 2824  
Amer. Acad. p. 166.

*Hab.* in *Pterostichi* speciebus, in Amer. bor. infer.

32. *Laboulbenia polyphaga* Thaxt. New Spec. Laboulb. in Proceed. 2825  
Amer. Acad. 1893, p. 165.

*Hab.* in elytris *Olisthopi*, *Stenolophi*, *Badisteri* et *Harpali* speciebus, in Amer. bor.

33. *Laboulbenia Palmella* Thaxt. Notes in Laboulb. 1894, p. 471. 2826

*Hab.* in *Mormolyce phyllode*, Perak, Mouloua, Java.

34. *Laboulbenia proliferans* Thaxt. New Spec. Laboulb. in Proceed. 2827  
Amer. Acad. p. 168.

*Hab.* in elytris *Endematis tropici*, *Chlænii auricollis* et *Dolichi*, in Africa, Syria et Japonia.

35. *Laboulbenia Pheropsophi* Thaxt. New Spec. Laboulb. in Proceed. 2828  
Amer. Acad. p. 170.

*Hab.* in *Pheropsophi æquinoctialis* et *P. marginati*, in Amer. merid. et Zanzibar Africae.

36. *Laboulbenia Philonthi* Thaxt. New Spec. Laboulb. in Proceed. 2829  
Amer. Acad. p. 174.

*Hab.* in *Philonthi* pluribus speciebus, in Amer. bor.

37. *Laboulbenia Panagæi* Thaxt. New Spec. Laboulb. in Proceed. 2830  
Amer. Acad. p. 170.

*Hab.* in elytris et thorace *Panagæi crucigeri* et *P. fasciati*, America boreali infer.

38. *Laboulbenia parvula* Thaxt. New gen. and sp. Laboulb. p. 108. 2831

*Hab.* in *Platyno extensicollis*, *P. æruginoso*. Amer. bor.

39. **Laboulbenia Pachytelis** Thaxt. New Spec. Laboulb. in Proceed. 2832  
Amer. Acad. p. 173.  
*Hab.* in cruribus et parte infer. *Pachytelis mexicanæ*, Mexico.
40. **Laboulbenia pedicellata** Thaxt. New gen. and sp. Laboulb p. 109 2833  
*Hab.* in *Bembidii* spec. ind., Amer. bor.
41. **Laboulbenia Quedii** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2834  
Acad. p. 167.  
*Hab.* in part. sup. abdominis *Quedii vernilis*, Illinois Amer. bor.
42. **Laboulbenia recta** Thaxt. New gen. and spec. Lab. p. 109. 2835  
*Hab.* in *Platyno extensicolli*, Amer. bor.
43. **Laboulbenia rigida** Thaxt. Notes on Laboulb. 1894, p. 475. 2836  
*Hab.* in *Pterosticho patrueli*, Maine et Mass. Amer. bor.
44. **Laboulbenia subterranea** Thaxt. New Spec. Laboulb. in Proceed. 2837  
Amer. Acad. p. 163.  
*Hab.* in *Anophthalmo Menetriesii*, *A. angustati* et *A. Motschulskyi*, in Amer. bor. et Carniola.
45. **Laboulbenia Schizogenii** Thaxt. New gen. and spec. Laboulb. p. 109. 2838  
*Hab.* in *Schizogenio lineolato* et *S. ferrugineo*, Amer. bor.
46. **Laboulbenia texana** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2839  
Acad. p. 172.  
*Hab.* in thorace *Brachiniæ*, Texas Amer. bor.
47. **Laboulbenia terminalis** Thaxt. Notes on Laboulb. 1894, p. 475. 2840  
*Hab.* in *Pterosticho luctuoso*, Maine et Mass. Amer. bor.
48. **Laboulbenia umbonata** Thaxt. New Spec. Laboulb. in Proceed. 2841  
Amer. Acad. p. 163.  
*Hab.* in thorace *Stenolophi ochropetii*, Maine Amer. bor.
49. **Laboulbenia variabilis** Thaxt. New gen. and spec. Laboulb. p. 109. 2842  
*Hab.* in *Anomoglossi*, *Chlænii*, *Omophri*, *Patrobi*, *Platyni*, *Pterostichi*, *Nebriæ pluribus speciebus*, Amer. bor.
50. **Laboulbenia zanzibarina** Thaxt. New Spec. Laboulb. in Proceed. 2843  
Amer. Acad. p. 175.  
*Hab.* in *Crepidogastere bimaculato*, Zanzibar Africae.

**SPHALEROMYCES** Thaxt. New gen. and spec. Laboulb. p. 94. (Etym. *sphaleros* noxius et *myces*).

1. **Sphaleromyces Lathrobii** Thaxt. l. c.

*Hab.* in *Lathrobio nitidulo* et *L. punctulato*, Maine  
Amer. bor.

2. **Sphaleromyces occidentalis** Thaxter Notes on Laboulb. 1894, p. 469. 2845

*Hab.* in *Pinophilo denso*, Utah Amer. bor.

**CHÆTOMYCES** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad.  
p. 178 (Ety. *chæte pilus* et *myces*).

1. **Chætomyces Pinophili** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 179. 2846

*Hab.* in abdomine *Pinophili latipedis*, in America boreali  
australiore.

**RHACHOMYCES** Thaxt. Notes on Laboulb. 1894, p. 468 (= *Acanthomyces* Thaxt. olim, nec Lebert) (Ety. *rhax*, *rhachos* fissura et *myces*).

1. **Rhachomyces speluncalis** Thaxt. l. c. 2847

*Hab.* in *Anophthalmopusione*, West Virginia Amer. bor.

2. **Rhachomyces furcatus** Thaxt. l. c. p. 467, *Acanthomyces furcatus* Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 177. 2848

*Hab.* in abdomine *Othii fulvipennis*, in Germania.

3. **Rhachomyces brevipes** Thaxt. l. c. p. 467, *Acanthomyces brevipes* Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 177. 2849

*Hab.* in abdomine *Lathrobii fulvipennis*, in Germania.

4. **Rhachomyces Lathrobii** Thaxt. l. c. p. 467, *Acanthomyces Lathrobii* Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 178. 2850

*Hab.* in abdomine *Lathrobii longiusculi* etc., in Amer.  
bor.

5. **Rhachomyces longissimus** Thaxt. l. c. p. 467, *Acanthomyces longissimus* Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 176. 2851

*Hab.* in elytris *Colpodis evanescentis*, Guatemala.

6. **Rhachomyces hypogæus** Thaxt. l. c. p. 467, *Acanthomyces hypogæus* Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 177. 2852

*Hab.* in elytris *Anophthalmi Bilimekii*, in Carniolia.

**TERATOMYCES** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad.  
p. 182 (Ety. *teras monstrum* et *myces*).

1. **Teratomyces mirificus** Thaxt. New Spec. Laboulb. in Proceed. Amer. Acad. p. 182. 2853

*Hab.* in abdomine *Acylophorj proni* et *A. flavicollis*,  
Amer. bor.

2. **Teratomyces Actobii** Thaxt. New gen. and spec. Laboulb. p. 98. 2834  
*Hab.* in *Actobio nano*, Maine Amer. bor.
3. **Teratomyces brevicaulis** Thaxt. New gen. and spec. Laboulb. 2855  
p. 99.  
*Hab.* in *Actobio nano*, Maine Amer. bor.

## II. Antherozoidia exogena

**CERATOMYCES** Thaxt. New spec. of Laboulb. 1893, p. 185 (Etym. *ceras cornu et myces*).

1. **Ceratomyces rostratus** Thaxt. New Spec. Laboulb. in Proceed. 2856  
Amer. Acad. p. 188.  
*Hab.* in parte infer. *Hydrocombi fimbriati et Philhydri cincti*, Amer. bor.
2. **Ceratomyces contortus** Thaxt. New Spec. Laboulb. in Proceed. 2857  
Amer. Acad. p. 186.  
*Hab.* in parte inferiore abdominis *Berosii striati*, Maine Amer. bor.
3. **Ceratomyces mirabilis** Thaxt. New gen. and spec. Laboulb. p. 110. 2858  
*Hab.* in *Tropisterno glabro et T. nimbato* in Amer. bor.
4. **Ceratomyces camptosporus** Thaxt. New gen. and spec. Laboulb. 2859  
p. 111.  
*Hab.* *Tropisterno glabro* in Amer. bor.
5. **Ceratomyces filiformis** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2860  
Acad. p. 187.  
*Hab.* in elytris *Tropisterni glabri*, *T. glabri* et *T. nimbati*, Amer. bor.
6. **Ceratomyces Minisculus** Thaxt. New Spec. Laboulb. in Proceed. 2861  
Amer. Acad. p. 187.  
*Hab.* in elytris *Tropisterni nimbati*, Amer. bor.
7. **Ceratomyces furcatus** Thaxt. New Spec. Laboulb. in Proceed. Amer. 2862  
Acad. p. 186.  
*Hab.* in parte infer. thoracis *Berosii striati*, Maine Amer. bor.
8. **Ceratomyces confusus** Thaxter Notes on Laboulb. 1894, p. 481. 2863  
*Hab.* in *Tropisterno glabro et T. nimbato*, New England Amer. bor.
9. **Ceratomyces terrestris** Thaxt. New gen. and spec. Laboulb. p. 94. 2864  
*Hab.* in *Lathrobio punctulato*, Maine Amer. bor.

10. **Ceratomyces humilis** Thaxt. New gen. and spec. Laboulb. p. 94. 2865  
*Hab.* in cruribus et elytris *Berosii striati*, Maine Amer. bor.

**DIPLOMYCES** Thaxt. Notes on Laboulb. 1894, p. 468 (Etym. *diploos*  
*duplex et myces*).

1. **Diplomyces Actobianus** Thaxt. l. c.

2866

*Hab.* in *Actobio nano*, Massachusetts Amer. bor.

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# SACCHAROMYCETACEÆ REES

Syll. VIII, p. 916.

**SACCHAROMYCES** Meyen — Syll. VIII, p. 916.

1. **Saccharomyces Joergensenii** Lasché Der Braumaister V, pag. 242. 2867  
J. C. Bay The sporeforming species of the genus *Saccharomyces*  
in Amer. Nat. 1893, p. 692.

*Hab.* in cerevisia «temperance-beer» in Europa et America.  
— Conidia 2,5-5,5  $\mu$ . diam.; sporidia bina-quaterna, 1-2,5  $\mu$ . diam.

2. **Saccharomyces Vordermannii** Went et Prinsen Geerlings Over 2868  
Suiker en Alcoholvorming etc. p. 17, t. III, f. 10-13.

*Hab.* in *Oryza fermentescenti*, Kagok-Tegal Javæ. — Asci  
globoso-ellipsoidei 8-10  $\mu$ . long., sæpius octospori; sporidia glo-  
boso-ellipsoidea 2-4  $\mu$ . longa (Mensuræ ex icone).

3. **Saccharomyces Willianus** Sacc. *Sacch. I of Will*, Bay The Spore 2869  
spec. of the gen. *Saccharomyces*, Amer. Natur. 1893, p. 693.

*Hab.* in cerevisia in Europa et America. — Sporidia in asco  
uni-quina, 1,5-5  $\mu$ . diam.

4. **Saccharomyces Bayanus** Sacc. *Sacch. II of Will*, Bay l. c. p. 693. 2870

*Hab.* in cerevisia in Europa et America. — Sporidia in asco  
1-quaterna, 2-4  $\mu$ . diam.

5. **Saccharomyces anomalus** Hans. in Centralb. für Bakter. 1889, II, 2871  
p. 71.

*Hab.* in fermento impuro cerevisiæ et vini in Europa. — Co-  
nidia ovato-globosa; sporidia 2-4 in quoque asco.

6. **Saccharomyces Ludwigii** Hansen in Centralbl. für Bakteriöl. 1888, 2872  
p. 632 et seq. Schröt. Pilze Schles. II, p. 206.

*Hab.* in fluxu ex truncis quercinis in Europa. — Conidia  
ellipsoideo-piriformia v. elongata.

7. **Saccharomyces Ilicis** Groenland in Bay l. c. p. 694. 2873

*Hab.* in fructibus fermentescentibus Ilicis Aquifolii in Eu-  
ropa. — Conidia ut in *Sacch. cerevisiæ*, sed conditiones ascoge-  
neticæ diversæ.

8. **Saccharomyces Aquifolii** Groenland in Bay l. c. p. 694. 2874

*Hab.* in fructibus Ilicis Aquifolii in Europa. — Conidia  
quam præcedentis paullo majora et conditiones ascogeneticæ di-  
versæ.



9. **Saccharomyces lateritius** Schröt. Krypt. Fl. Schles. III, p. 203. 2875

*Hab.* in fluxu trunci cæsi Carpini, in Silesia. — Lateritius vel carneus; conidia 12  $\approx$  5-6.

10. **Saccharomyces Betulæ** Peck et Pat. 44 Rep. p. 30, t. II, f. 16-17. 2876

*Hab.* in fluxu trunci cæsi Betulæ luteæ, New Baltimore Amer. bor. — Conidia varia, 8-20  $\approx$  4, stratum albidum formantia.

11. **Saccharomyces Comesii** Cav. Micr. zim. p. 6 et Rev. mycol. 1893, 2877 p. 137.

*Hab.* in cellulis vaginalium et culmorum Sorghi Cafrorum (ex Africa?). — Conidia acrogena, solitaria vel catenulata, 7-9  $\approx$  2-3; asci 10-14  $\approx$  6-8; sporidia bina vel quaterna, 3-4  $\mu$ . diam.

12. **Saccharomyces lactis** Adametz Centralbl. für Bacteriol. 1885, V. 2878 Schröt. Pilze Schles. II, p. 206.

*Hab.* in lacte fermentescenti. — Conidia globulosa, dein ovoidea, 7-8  $\approx$  5-6.

13. **Saccharomyces Fresenii** Schröt. Krypt. Fl. Schles. III, p. 203. 2879

*Hab.* in pulvere aeri exposito denique in substantiis variis nutritiis se evolvens, in Germania. — Carneus; conidia 10  $\approx$  4-5, solitaria vel 2-4-seriata. *S. rosaceo* affinis nisi identicus.

#### *Genera incertæ sedis*

- SCHIZOSACCHAROMYCES** Beyerinck Centralbl. Bakt. XVI, pag. 49

(Etym. *schizo* divido et *Saccharomyces*). Asci constanter octospori. Sporidia globosa per tetrades diu juncta.

1. **Schizosaccharomyces octosporus** Beyer. l. c. 2880

*Hab.* in uvis e Corintho et Zante, fermentescentibus. — Asci octospori 12-20  $\mu$ . long.; sporidia globosa 4,5  $\mu$ . diam., 1-nucleata, hyalina.

- EOMYCES** F. Ludw. Centralbl. für Bakteriologie und Paras. 1893, p. 905.

cum fig. (Etym. *eos* aurora, quasi initium et *myces*). — Fungi unicellulares, amycelici, partitione quadruplici raro duplici, colonias tetradas formantes.

1. **Eomyces Crieanus** F. Ludw. l. c. 2881

*Hab.* in fluxu lymphæ Æsculi Hippocastani, Rennes Gallicæ (CRIÉ). — Cellulæ hyalinæ, 4,5-6  $\mu$ . diam., per 4 vel 16 vel 32 (raro per 2 vel 8) connexæ.

primus et *thece* ascus). — Affinis videtur *Eomyceti* F. Ludw., sed cellulæ schizogenæ membrana communi obvolutæ, dein liberatæ, in modum tetradicum v. moriformem connexæ.

1. *Prototheca moriformis* Krüg. l. c.

2882

*Hab.* in fluxu lymphæ Tiliæ pr. Halle Germaniæ.

2. *Prototheca Zopfi* Krüg. l. c.

2883

*Hab.* in fluxu lymphæ Ulmi pr. Halle Germaniæ.

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## MYXOBACTERIACEÆ THAXT. \*)

Bot. Gaz. 1892, p. 399 et 1893, p. 29

Ordo singularis, sistens fungillos habitu *Mucedinearum* *compositarum*, sed constantes ex innumeris baculis v. coccis (omnino *schizomycetoideis*) initio pseudoplasmodium formantibus, dein in formas evolutiores fere stilbaceas v. tuberculariaceas congestis, sæpius initio cystibus inclusis.

**CHONDROMYCES** B. et C., Thaxt. Bot. Ges. 1892, p. 399. — Syll. IV, p. 576.

1. *Chondromyces crocatus* B. et C. Thaxt. l. c. t. XXII-XXIII, Sacc. loc. cit.

2. *Chondromyces aurantiacus* (B. et C.) Thaxt. l. c. t. XXIII-XXIV, *Stigmatella* B. et C. — Sacc. Syll. IV, p. 680.

3. *Chondromyces lichenicola* Thaxt. l. c. t. XXIII, f. 20-23.

*Hab.* in lichenibus viventibus, quos destruit, New Haven Amer. bor. 2884

4. *Chondromyces serpens* Thaxt. l. c. t. XXIV, fig. 24.

*Hab.* in lichenibus corruptis, Cambridge Mass. Amer. bor. 2885

**MYXOBACTER** Thaxt. Bot. Gaz. 1892, p. 403 (Etym. *myxa* mucus et *bacter* baculus).

1. *Myxobacter simplex* Thaxter Bot. Gazette 1893, p. 29.

*Hab.* in lignis et corticibus putridis, udis, Kittery Point et Belmont Amer. bor. 2886

2. *Myxobacter aureus* Thaxt. Bot. Gazette 1892, p. 403, t. XXV, f. 34-36.

*Hab.* cum præcedente. 2887

**MYXOCOCCUS** Thaxt. Bot. Gaz. 1892, p. 403 (Etym. *myxa* mucus et *coccus*).

1. *Myxococcus rubescens* Thaxt. l. c. t. XXV, fig. 37-41.

2888

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\*) Schizomycetum formas novas prætermitto; vide observationem in Syll. vol. X. p. 110.

*Hab.* in substantiis putridis, lichenibus, charta, fimo etc.  
in Amer. bor.

2. **Myxococcus virescens** Thaxt. l. c.

2889

*Hab.* in stercore canino et gallinaceo in Amer. bor.

3 **Myxococcus coralloides** Thaxt. l. c. t. XXIV, fig. 29-33.

2890

*Hab.* in lichenibus putrescentibus Cambridge Mass. Amer.  
boreali.

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# MYXOMYCETÆ WALLR.

Syll. VII, p. 323, X, p. 83.

## Subcohors 1. EUMYXOMYCETÆ

### Sect. 1. Amanrosporæ Rost.

**PHYSARUM** Pers. — Syll. VII, p. 336, X, p. 84.

1. **Physarum Readeri** Mass. Mon. Myxog. p. 282.

2891

*Hab.* ad ligna, Melbourne Australiæ. — *Peridia* stipitata, 2,5–3 mm. alt., grisea, stipite brunneo; sporæ 15–16  $\mu$ . diam., lilacinæ, minutissime verruculosæ.

2. **Physarum oblatum** Mac Br. Myx. East. Jowa in Nat. Hist. Bull. 1893, p. 385, T. XI, f. 3 a e b.

2892

*Hab.* in fragmentis ligneis, East. Jowa Amer. bor. — *Peridia* stipitata, læte flava, stipite rufo-brunneo; sporæ 9–10  $\mu$ . diam., atro-violaceæ, asperulæ.

3. **Physarum fulgens** Pat. Bull. Soc. Myc. 1892, p. 122.

2893

*Hab.* in ligno putri, Puente de Chimbo Æquatoriæ. — *Peridia* 0,2–1 mm. long., brunnea, granulis aureo-nitentibus prædita; sporæ 10–12  $\mu$ . diam., leves, violaceæ.

4. **Physarum Kalchbrenneri** Mass. Mon. Myxog. p. 297.

2894

*Hab.* ad ligna, in Capite Bonæ Spei. — *Peridia* stipitata 2,5–3 mm. alt., flavo-virentia, stipite rufescenti; sporæ lilacinæ, leves 11–13  $\mu$ . diam.

5. **Physarum cerebrinum** Mass. Mon. Myxog. p. 306.

2895

*Hab.* ad fragmenta lignea cum Palmis ex Java, in calidariis Kew London. — *Peridia* confluentia, contorta, cerebriformia, 0,5–4 cm. lat., griseo-lilacina; sporæ 9–11  $\mu$ . diam., minutissime verruculosæ, violaceæ.

6. **Physarum multiplex** Peck Bull. Torr. Cl. 1884, p. 50.

2896

*Hab.* in ligno et cortice putrescenti, Ohio Amer. bor. — *Peridia* confluentia, stipitata, gyroso-convoluta, viridi-flavida; sporæ atro-brunnæ 10  $\mu$ . diam. Forma tantum, ut videtur, *Tilmadoches gyrocephalæ* Rost., teste ipso auctore.

7. **Physarum rubro-punctatum** Pat. Bull. Soc. Myc. 1893, p. 143.

2897

*Hab.* in foliis viventibus, pr. Quito Æquatoriæ. — *Peridia* 0,5

mm. lat., griseo-alba, miniato-punctata, stipitata; sporæ 8-10  $\mu$ . diam., leves, violaceæ.

8. *Physarum columbinum* Mac Br. Nicarag. Myx. East. Jow. in Nat. Hist. Bull. 1893, p. 384, T. XI, f. 2, 2<sup>a</sup>, 2<sup>b</sup>.

*Hab.* ad fragmenta vegetabilia, East. Jova Amer. bor. — Peridia stipitata, cinerea vel columbina; sporæ fumoso-violaceæ, minutæ papillosæ, 3-14  $\mu$ . diam.

9. *Physarum nicaraguense* Mac Br. Nicar. Myx. in Nat. Bull. 1893, p. 382, T. X, f. 2, 2<sup>a</sup>, 2<sup>b</sup>.

*Hab.* in fragmentis vegetabilibus, Ometepe Amer. centr. (SHIMEK). — Peridia multilobata, grisea, breve fusco-stipitata; sporæ 12  $\mu$ . diam., violaceæ valde rugosæ.

10. *Physarum maculatum* Mac Br. Nicarag. Myx. in Natur. Hist. Bull. 1893, p. 383, T. X, f. 1, 1<sup>a</sup>, 1<sup>b</sup>.

*Hab.* ad fragmenta vegetabilia, Nicaragua Amer. centr. — Peridia grisea, stipitata, stipite longo striato, læte flavo; sporæ 9-10  $\mu$ . diam., purpurascens, minute papillosæ.

11. *Physarum Newtoni* Mac Br. Physar. Colorado in Nat. Hist. Bull. 1893, p. 390, T. XI, f. 1, 1<sup>a</sup>, 1<sup>b</sup>.

*Hab.* ad fragmenta vegetabilia, Colorado Amer. bor. — (NEWTON). — Peridia substipitata, levia, purpurea; sporæ atro-brunneæ, asperulæ, 10  $\mu$ . diam.

12. *Physarum lepidodermoides* Blytt Bid. Norg. Myx. p. 4. 2902

*Hab.* ad muscos (*Rhacomitrium*), in Norvegia. — Peridia stipitata, flavo-grisea; sporæ 9,5-11  $\mu$ . diam., spinulosæ, atro-violaceæ.

**CRATERIUM** Trent. — Syll. VII, p. 355.

1. *Craterium Fuckelii* Mass. Mon. Myxog. p. 272, *Craterium mulate* 2901  
*bile* Fuck., nec Fries.

*Hab.* ad ligna, in Germania. — Peridia globosa, brunneo-ochracea, breve stipitata; sporæ lilacinæ, 12-14  $\mu$ . diam., grosse verrucosæ.

2. *Craterium cylindricum* Mass. Mon. Myxog. pag. 268, *Craterium* 290  
*leucocephalum* Ellis N. A. F. n. 1400 nec auct.

*Hab.* ad ramos, in America boreali. — Peridia cylindracea, pallide rubra, stipitata, stipite rubro 2-2,5 mm. long.; sporæ lilacinæ, leves, 9-10  $\mu$ . diam.

**TILMADOCHÉ** Fr. — Syll. VII, p. 359.

1. **Tilmadoche Berkeleyi** Massee Mon. Myxog. p. 332. 2905  
*Hab.* ad ramos, New England Amer. bor. — *Peridia* stipitata, 2-2,5 mm., atro-cyaneo-grisea, stipite atro-brunneo; sporæ lilacino-brunneæ, minute verrucosæ, 11-12  $\mu$ . diam.
2. **Tilmadoche anomala** Massee Mon. Myxog. p. 333. 2906  
*Hab.* ad ligna, in Venezuela. — *Peridia* globosa, stipitata, 3-3,5 mm. alt., alba, stipite elongato, pallide flavo; sporæ lilacinæ, leves, 10  $\mu$ . diam.
3. **Tilmadoche reniformis** Massee Mon. Myxog. p. 336. 2907  
*Hab.* ad cortices, in ins. Ceylon. — *Peridia* stipitata 2 mm. alt., reniformia, albida, stipite elongato brunneolo; sporæ 16-17  $\mu$ . diam., spinulosæ, atropurpureæ.

**CHONDRIODERMA** Rost. — Syll. VII, p. 362, X, p. 85.

1. **Chondrioderma Lyallii** Massee Mon. Myxog. p. 201. 2908  
*Hab.* in ramulis decorticatis, Canada Amer. bor. (LYALL). — *Peridia* 1,5-2 mm. alt., sessilia, albida; sporæ 13-15 diam., grosse verrucosæ.
2. **Chondrioderma frustulosum** Pat. Bull. Boiss. 1895, p. 61, t. II, 2909 fig. 6.  
*Hab.* in caulibus herbaceis putridis, San Jorge Æquatoriae. — *Peridia* globosa 1 mm. diam., sessilia, alba; sporæ atroviolaceæ, verruculosæ, 10-11  $\mu$ . diam.
3. **Chondrioderma virgineum** Massee Mon. Myxog. p. 207. 2610  
*Hab.* ad folia, in Britannia. — *Peridia* nivea, deorsum grisea, sessilia, 0,5 mm. diam., gregaria; sporæ pallide lilacinæ, 8-11  $\mu$ . diam., minutissime verruculosæ.

**DIDYMIUM** Schrad. — Syll. VII, p. 375, X, p. 85.

1. **Didymium oculatum** Lippert Verhandl. Zool. Bot. Gesellseh. Wien 2911 1894, p. 72, tab. IV.  
*Hab.* in ligno putrescenti abietino, in Austria. — *Peridia* atra, nitida, 0,7-1 mm. diam.; sporæ globosæ, violaceo-brunneæ, minute verrucosæ, 12-13  $\mu$ . diam.
2. **Didymium elegantissimum** Massee Mon. Myxog. p. 243. 2912  
*Hab.* in ramis et foliis, in Britannia et Germania. — *Peridia* stipitata, 1,5 mm. alt., nivea, stipite aurantio-brunneo; sporæ 8-10  $\mu$ . diam., minute verrucosæ, pallide lilacinæ.
3. **Didymium Listeri** Mass. Monogr. Myxog. p. 244, fig. 97-101. 2913  
*Hab.* in foliis putridis in Britannia. — *Peridia* confluentia, pul-



vinato-compressa, alba, 3-7 mm. lat.; sporæ 8-10  $\mu$ . diam., sublilacinæ, minute verrucosæ.

4. *Didymium longipes* Masee Mon. Myxog. p. 236.

2914

*Hab.* ad cortices et ligna in Britannia et in Carolina. — *Peridia* nivea, stipitata, 2,5-3 mm. alt., stipite prælongo, niveo; sporæ 8-10  $\mu$ . diam., leves, fumoso-lilacinæ.

5. *Didymium echinosporum* Masee Mon. Myxog. p. 239.

2915

*Hab.* ad cortices, in ins. Ceylon. — *Peridia* albida, longe stipitata, 1,5-2 mm. alt.; sporæ 12-14  $\mu$ . diam., verrucosæ, fusco-purpureæ.

6. *Didymium fulvellum* Masee Mon. Myxog. p. 237, fig. 232.

2916

*Hab.* in foliis putridis, in America boreali. — *Peridia* stipitata, 1 mm. diam., albida intus læte fulva, stipite fulvo 2 mm. long.; sporæ leves, sublilacinæ, 8-10  $\mu$ . diam.

7. *Didymium neglectum* Masee Mon. Myxog. p. 231, fig. 207.

2917

*Hab.* ad ligna, Philadelphia Amer. bor. — *Peridia* stipitata, 1 mm. alt., albida, stipite nigro; sporæ leves, 7-9  $\mu$ . diam., lilacinæ.

8. *Didymium Barteri* Masee Mon. Myxog. p. 231.

2918

*Hab.* ad muscos, in Africa occidentali. — *Peridia* stipitata 3 mm. alt., alba; sporæ leves, sublilacinæ, 10-11  $\mu$ . diam.

**LEPIDODERMA** De Bary — Syll. VII, p. 386.

1. *Lepidoderma obovatum* Masee Mon. Myxog. p. 254, fig. 45-47.

2919

*Hab.* ad gramina et ramos, in Suecia. — *Peridia* stipitata, 1,5 mm. alt., subochracea, stipite atro-brunneo; sporæ 11-13  $\mu$ . diam., fusco-violaceæ, minute verrucosæ.

2. *Lepidoderma fulvum* Masee Mon. Myxog. p. 253, fig. 39-40.

2920

*Hab.* ad muscos et ramos, in Britannia et Gallia. — *Peridia* stipitata, fulva, 2,5-3 mm. alt.; sporæ purpureo-brunneæ, leves, 10-12  $\mu$ . diam.

**DIACHEA** Fries. — Syll. VII, p. 387.

1. *Diachea confusa* Masee Mon. Myxog. p. 259.

2921

*Hab.* in foliis vivis Geranii, in Jamaica. — *Peridia* stipitata, cylindracea, 2,5-3 mm. alt., fusco-purpurea iridescentia, stipite ochraceo; sporæ leves, 5-6  $\mu$ . diam., fusco-lilacinæ.

**LAMPRODERMA** Rost. — Syll. VII, p. 390.

1. *Lamproderma Listeri* Masee Mon. Myxog. p. 97, fig. 202-203.

2922

*Hab.* ad muscos et ligna, in Scotia, Tasmania et Nova Zelan-

dia. — *Peridia stipitata* 2 mm. alt., atropurpurea iridescentia, stipite nigro-brunneo; sporæ 15-17  $\mu$ . diam., fusco-purpureæ, grosse spinulosæ.

2. **Lamproderma robustum** Ell. et Ev. in Massee Myxog. p. 99. 2923

*Hab.* ad ligna, in America boreali. — *Peridia globosa*, stipitata, 2-2,5 mm. alt., atro-purpurea, stipite nigricanti; sporæ 9-10  $\mu$ . diam., minute verrucosæ, brunneo-purpureæ.

**COMATRICHA** Preuss — Syll. VII, p. 394, X, p. 87.

1. **Comatricha Sommerfelti** Blytt Bid. Norg. Myx. p. 8. 2924

*Hab.* ad fragmenta lignea, in Norvegia. — *Peridia ovata*, stipitata, 1,5 mm. long., stipite nigro; sporæ 11-14  $\mu$ . diam., atro-violaceæ, leves.

2. **Comatricha Shimekiana** MacBr. Nicarag. Myx. in Nat. Hist. Bull. 1893, p. 380, T. 10, f. 3. 2925

*Hab.* in fragmentis vegetabilibus, Castillo Viejo Amer. centr. (SHIMEK). — *Peridia sphæroidea*, iridescentia, stipite tenui triplo longiore, nigro; sporæ leves, pallide-brunneæ, 7-9  $\mu$ . diam.

**STEMONITES** Gled. — Syll. VII, p. 397, X, p. 87.

1. **Stemonites Carlylei** Massee Mon. Myxog. p. 84. 2926

*Hab.* ad ligna, Carlisle Britanniae. — *Peridia cylindracea*, apice obtusa, stipitata, 3,5-4 mm. alt., stipite brevi, brunneo; sporæ 11-15  $\mu$ . diam., aurantio-brunneæ, leves.

2. **Stemonites Suksdorfii** Massee Myxogast. p. 76. 2927

*Hab.* ad ligna et cortices, in America boreali. — *Peridia cylindrica*, stipitata, 5-6 mm. alt., iridescentia, stipite nigricanti; sporæ 7-8  $\mu$ . diam., asperulæ, læte lilacinæ.

3. **Stemonites Smithii** MacBr. Nicarag. Myx. in Nat. Hist. Bull. 1893, p. 381, T. X, f. 4<sup>a</sup>, 4<sup>b</sup>. 2928

*Hab.* ad fragmenta lignea, Nicaragua Amer. centr. — *Peridia cylindracea*, 2,5 mm. long., stipite æquilongo; sporæ pallide fuscæ, levæ 4-5  $\mu$ . diam.

4. **Stemonites castillensis** MacBr. Nicar. Myx. in Nat. Hist. Bull. 1893, p. 381, T. X, f. 5, 5<sup>a</sup>, 5<sup>b</sup>. 2929

*Hab.* ad fragmenta lignea, Castillo Viejo, Nicaragua, Amer. centr. — *Peridia longe stipitata*, cylindrica, 15-18 mm. alt.; sporæ brunneæ, 7-8  $\mu$ . diam., alte reticulatæ.

5. **Stemonites atra** Massee Mon. Myxog. p. 78. 2930

*Hab.* ad ligna, in Nova Zelandia, — *Peridia stipitata*, 6-8 mm.

alt., cylindrico-ovata, nigra, subiridescentia; sporæ lilacino-brunneæ, leves, 10  $\mu$ . diam.

6. **Stemonites acuminata** Masee Mon. Myxog. p. 78.

2931

*Hab.* ad ligna putrida, in Capite Bonæ Spei. — Peridia cylindrica, apice acuminata, stipitata, 15 mm. alt., stipite nigro nitenti; sporæ 13-14  $\mu$ . diam., leves, atropurpureæ.

7. **Stemonites Bäuerlinii** Masee Mon. Myxog. p. 79.

2932

*Hab.* ad ligna, in Nova Guinea. — Peridia elongato-fusoidea, nigra, iridescentia, 1,5-2 cm. alt., stipite nigro nitenti; sporæ leves, 5-6  $\mu$ . diam., atroviolaceæ.

## Sect. 2. Lamprosporæ.

**LICEA** Schrad. — Syll. VII, p. 404, X, p. 89.

1. **Licea biformis** Morg. Myxom. Miam. Vall., Ohio p. 5, Tab. III, fig. 1. 2933

*Hab.* in cortice interiore Liriodendri, London Canada (DEARNESS). — Peridia 0,2-0,4 mm. long., sessilia, flavo-brunnea, bivalentim dehiscentia; sporæ flavo-brunneæ, 9-12  $\mu$ . diam., leves.

**CLATHROPTYCHIUM** Rost. — Syll. VII, p. 408.

1. **Clathroptychium Berkeleyi** Masee Monogr. Myxogost. p. 53. 2934

*Hab.* ad ligna, in ins. Ceylon. — Peridia conferta, brunneo-olivacea; sporæ 10-13  $\mu$ . diam., olivaceæ, verrucosæ.

**DICTYDIUM** Schrad. — Syll. VIII, p. 410.

1. **Dictydium longipes** Morg. Myxom. Miam. Vall., Ohio p. 17, T. III, fig. 12. 2935

*Hab.* ad ligna putrida, muscos etc., Miami Valley, Ohio Amer. bor. — Peridia 0,5-0,7 mm. diam., stipitata, atropurpurea, stipite longissimo; sporæ atropurpureæ, 5-7  $\mu$ . diam.

**CRIBRARIA** Pers. — Syll. VII, p. 412, X, p. 90.

1. **Cribraria dictydioides** Cooke et Balf. in Rav. F. Amer. n. 475, Masee Monogr. Myxogast. p. 65. 2936

*Hab.* ad ligna, in Carolina et Philadelphia. — Peridia subochracea, stipitata, 3 mm. alt., stipite ochraceo-brunnæo; sporæ subhyalinæ, minute verrucosæ, 5-7  $\mu$ . diam.

2. **Cribraria cuprea** Morg. Myxom. Miam. Vall., Ohio p. 16, T. III, fig. 11. 2937

- Hab.* ad ligna vetusta, Miami Valley, Ohio Amer. bor. — Peridia 300  $\mu$ . diam., cuprea, longe stipitata; sporæ 6-7  $\mu$ . diam., leves, pallide cupreæ.
3. **Cribraria exilis** MacBr. Nicarag. Myxom. in Natur. Hist. Bullet. 2938  
1893, p. 378, T. X, f. 6 e 6<sup>a</sup>.
- Hab.* ad ligna, Nicaragua Amer. centr. — Peridia longe stipitata, sphærica, purpureo-brunnea; sporæ 5-6  $\mu$ . diam., leves, pallide purpureæ.
4. **Cribraria elata** Massee Monogr. Myxogast. p. 61. 2939
- Hab.* ad ligna et ramos, in ins. Ceylon. — Peridia stipitata, rufo-brunnea, 3-3,5 mm. alt.; sporæ pallide flavo-brunneæ, leves, 7-8  $\mu$ . diam.

**RETICULARIA** Bull. — Syll. VII, p. 418.

1. **Reticularia splendens** Morg. Myxom. Miam. Vall., Ohio pag. 11, 2940  
Tab. III, fig. 10.
- Hab.* ad ligna putrida, Miami Valley, Ohio Amer. bor. — Peridia pallide umbrina in plasmodiocarpium pulvinatum confluentia: sporæ 7-9  $\mu$ . diam., reticulatæ, pallide umbrinæ.

**PERICHÆNA** Fr. — Syll. VII, p. 420, X, p. 91.

1. **Perichæna plasmodiocarpa** Blytt Bid. Morg. Myx. p. 10. 2941
- Hab.* in ligno putrido Abietis, in Norvegia. — Peridia sessilia, conferta, in plasmodia 1-2 cm. long., confluentia, rubro-virentia; sporæ 10  $\mu$ . diam., spinulosæ, flavæ.
2. **Perichæna confusa** Massee Mon. Myxog. p. 117. 2942
- Hab.* ad ligna et folia, in Britannia et America boreali. — Peridia ochraceo-umbrina *æthalioidea* vel subreticulata; sporæ 13-14  $\mu$ ., leves, subochraceæ.
3. **Perichæna gregata** Fautr. et Lamb. Rev. mycol. 1894, p. 161. 2943
- Hab.* in culmis putridis Sorghi, Côte-d'Or Galliæ. — Peridia globoso-conica, atro-purpurea; sporæ aurantiæ, leves, 6-8  $\mu$ . diam.

**CLEISTOBOLUS** Lippert Verhandl. Zool. Bot. Gesellsch. Wien 1894, p. 70 (Etym. *cleistos* clausus et *bolos* jactus). — Sporangia solitaria, globosa, sessilia (brunneo-flava) operculo rotundo margine dentato tecta. Peridium duplex, externum crassum coloratum, internum tenue, hyalinum. Capillitium rudimentale, leve, hyalinum. Sporæ globosæ, leves, dilute coloratæ.

1. **Cleistobolus pusillus** Lipp. l. c. tab. III.

*Hab.* in ligno abietino putrescenti, in Austria. — Sporangia 85-90  $\mu$ . diam.; sporæ globosæ, leves, dilute brunneæ, coacervatæ rufo-brunneæ, 7-9  $\mu$ . diam. — «Mihi dubius myxomyces».

**HYMENOBOLINA** Zuk. Ueb. zwei neue Myxom. p. 1, Tab. V, f. 1-10 (Etym. *hymenium* et *bolos* jactus). — Peridia solitaria, circumlineata, sessilia, fuliginea, calce carentia. Capillitium exiguum, hyalinum. Sporæ coloratæ, globosæ, episporio uno latere crassiore.

1. **Hymenobolina parasitica** Zuk. Oester. bot. Zeitschr. 1893, p. 74 2945 (cfr. pag. 133 nota 3) tab. V, f. 1-10.

*Hab.* in trunco vetusto Salicis, in Carinthia. — Peridia 20  $\mu$ . diam. e miniato fuliginea; sporæ 14-16  $\mu$ . diam., leves, miniatæ dein badiæ.

**HETEROTRICHIA** Mass. Monogr. Myxog. p. 139 (Etym. *heteros* diversus et *Trichia*). — Characteres *Arcyriæ* sed tubuli seu elateres (reticulati) ramulos breves spiniformes, simplices v. furcatos hinc inde gerentes. Sporæ globosæ, flavidæ.

1. **Heterotrichia Gabriellæ** Mass. l. c. p. 140, fig. 205-207. 2946

*Hab.* ad ligna in Carolina infer. Amer. bor. (H. W. RAVENEL). — Sporangia ovata breve stipitata e rufo aurea; tubuli 5-6  $\mu$ . cr.; sporæ globosæ, leves, flavæ, 7-8  $\mu$ . diam.

**ARCYRIA** Hall. — Syll. VII, p. 425, X, p. 92.

1. **Arcyria Hariotii** Massee Mon. Myxog. p. 155. 2947

*Hab.* in ligno putrescenti in Gallia (HARLOT). — Peridia subsessilia, 0,5 mm. diam., læta flava, levia; sporæ leves, 7-9  $\mu$ . diam. flavidæ.

2. **Arcyria Winteri** Wettst. Beitr. Pilzfl. d. Bergwerke p. 5. 2948

*Hab.* ad trabes udas, in Austria. — Peridia campanulato-ovoidæ, 1-1,5 = 0,7-1 mm., aurantiaca, stipite tenui 1-3 mm. long.; sporæ 5-8  $\mu$ . diam., subleves, aurantiæ.

3. **Arcyria denudata** Fr. Nov. Symb. p. 135. 2949

*Hab.* ad ligna, in insulis Nikobaricis (DIDRICHSEN). — Peridia cylindrica, substipitata, evanescentia, capillitio persistente, sporæ que lilacino-corneæ.

4. **Arcyria Cookei** Massee Mon. Myxog. p. 154. 2950

*Hab.* ad ligna, in Brasilia. — Peridia cylindræa, stipitata, 3,5-4 mm. long., ardesiaca; sporæ 8-9  $\mu$ . diam., leves, concolores.

**LACHNOBOLUS** Fr. — Syll. VII, p. 433.

1. *Lachnobolus pygmæus* Zuk. Zwei neue Myxom. p. 8, T. V, f. 11-13. 2951

*Hab.* in cortice *Salicum vetustarum*, in Carinthia. — *Peridia* solitaria, sessilia 100-200  $\mu$ . diam., mellea; sporæ 10-11  $\mu$ . diam., melleæ, episporio angustissime, canaliculato-punctato.

**LYCOGALA** Mich. — Syll. VII, p. 335.

1. *Lycogala exiguum* Morg. Myxom. Miam. Vall., Ohio p. 8, Tab. III, 2952  
fig. 6.

*Hab.* ad ligna vetusta, Miami Valley, Ohio Amer. bor. — *Plasmodiocarpia* globosa, brunneo-nigricantia, sessilia, 2-5 mm. diam.; sporæ pallide ochraceæ, subleves, 5-6  $\mu$ . diam.

2. *Lycogala rufo-cinnamomeum* Massee Mon. Myxog. p. 125. 2953

*Hab.* in fragmentis ligneis putrescentibus, in Africa australi. — *Plasmodiocarpia* sessilia, ochraceo-grisea 0,5-1 cm. lat.; sporæ 10 diam., grosse verrucosæ, rufo-cinnamomeæ.

3. *Lycogala ochraceum* Massee Mon. Myxog. p. 125. 2954

*Hab.* ad ligna putrescentia, Bahia et Java. — *Plasmodiocarpia* sessilia, 0,5-2,5 cm. diam., ochracea; sporæ 3,5-4  $\mu$ . diam., pallide ochraceæ, parce verruculosæ.

**OLIGONEMA** Rost. — Syll. VII, p. 436.

1. *Oligonema fulvum* Morg. Myxom. Miam. Vall., Ohio p. 42. 2955

*Hab.* ad *Sphærias* vetustas effusas, Miami Valley Ohio Amer. bor. — *Peridia* 0,6-0,8 mm. diam., sessilia, flavido-fulva, subiridescentia; sporæ globosæ, verruculosæ, 10-13  $\mu$ . diam., flavido-fulvæ.

**CALONEMA** Morg. Myxom. Miam. Vall., Ohio pag. 33 (Etym. *calos* pulcher et *nema* filum, hypha). — Characteres *Oligonematis* sed tubuli seu elateres longi, ramosi et basi sporangii fixi.

1. *Calonema aureum* Morg. Myxom. Miam. Vall., Ohio p. 33, Tab. I, 2956  
fig. 21.

*Hab.* ad et intra lignum putre, Miami Valley, Ohio Amer. bor. — *Sporangia* subglobosa, sessilia, aurea; tubuli 5-6  $\mu$ . cr. aurei; sporæ 14-16  $\mu$ . diam., costato-areolatae, flavæ.

**TRICHIA** Hall. — Syll. VII, p. 438, X, p. 93.

1. *Trichia jowensis* MacBride Myx. East. Jowa p. 133, t. V, f. 4 et 2957  
X, f. 5.

*Hab.* in cortice Populi, Eastern Jowa Amer. bor. — Peridia sessilia, purpureo-brunnea; sporæ tenuiter verrucosæ, 9-11  $\mu$ . diam., flavidæ; elateres longe spinulosi.

2. *Trichia contorta* Otth Bern. Mittheil. 1868, p. 62.

2958

*Hab.* in cortice inferiore Tiliæ grandifoliæ pr. Steffisburg Helvetiæ. — Rufa, dein fulvo-cinerescens; peridia pauca, congesta sessilia, elongata, sinuoso-repentia; sporæ flavæ, leves; elateres pallidi, funiformi-bicostati, ceterum glabri.

**HEMIARCYRIA** Rost. — Syll. VII, p. 446, X, p. 98,

1. *Hemiarcyria funalis* Morg. Myxom. Miam. Vall., Ohio p. 32, T. I; 2959  
fig. 20.

*Hab.* ad ligna putrida, Miami Valley, Ohio Amer. bor. — Peridia ovoideo-turbinata, flavo-olivascens, stipitata, 1,5-3,5 mm. alt., stipite flavo-brunneo; sporæ flavæ, minute verrucosæ, 8-9  $\mu$ . diam. — E sect. *Hemitrichia*.

2. *Hemiarcyria oblata* Morg. Myxom. Miam. Vall., Ohio p. 30.

2960

*Hab.* ad ligna putrida Ulmi etc., Miami Valley, Ohio Amer. bor. — Peridia ovato-turbinata, flavido-olivascens, stipitata 1,5-2,5 mm. long.; stipite rufo-brunneo; sporæ flavæ, 8-9  $\mu$ . diam. — E sect. *Arcyrioides*.

3. *Hemiarcyria plumosa* Morgan Myxom. Miami Valley, Ohio p. 29, 2961  
Tab. I, fig. 19,

*Hab.* in ramis dejectis putrescentibus, Miami Valley Ohio Amer. bor. — Peridia ovato-turbinata, olivaceo-flava, stipitata 2-3 mm. alt.; sporæ citrinæ, minute asperulæ, 8-9  $\mu$ . diam.

*Subcohors* 2. **MONADINEÆ** CIENK. — Syll. VII, I, p. 452.

**ENDOBIELLA** De Bruyne Ueb. eine neue Monad. in Centralbl. für Bakt. IV, p. 1-5 (Etym. *endon* intus et *bios* vita).

1. *Endobiella Bambekii* De Bruyne l. c.

2962

*Hab.* in cellulis Nitellæ mucronatæ et Charæ vulgaris, Halle et Berlin Germaniæ.



## SPHÆROPSIDÆ (LÉV.) Sacc.

Syll. III, p. 1, X, p. 100.

Fam. 1. Sphærioideæ Sacc.

Sect. 1. Hyalosporæ.

PHYLLOSTICTA Pers. — Syll. III, p. 3, X, p. 100.

1. In Dicotyledoneis lignosis.

1. *Phyllosticta macrospora* Ell. et Ev. Proc. Acad. Phil. 1894, p. 355. 2963  
*Hab.* in foliis Liriodendri Tulipiferae, in Virginia Amer. bor. — Maculae ferrugineo-griseae, obscurius-marginatae; sporulae 20-25  $\times$  6-7, hyalinae.
2. *Phyllosticta platylobii* Cooke et Massee Grev. XIX, p. 61. 2964  
*Hab.* in foliis vivis *Platylobii*, Victoria Australiae. — Maculae pallidae, brunneo-marginatae; perithecia minutissima, prominula; sporulae 3  $\times$  1, hyalinae.
3. *Phyllosticta glabra* Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 2965 1893, p. 221.  
*Hab.* in foliis languidis *Rhois glabrae*, Fouras Galliae. — Maculae brunneae, angulosae; perithecia punctiformia, nigricantia; sporulae 5  $\times$  2 2,5, hyalinae.
4. *Phyllosticta rhoicola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 356. 2966  
*Hab.* in foliis *Rhois Toxicodendri*, in Virginia Amer. bor. — Maculae pallidae, atro-marginatae; perithecia 100-110  $\mu$ . diam.; sporulae 5-6  $\times$  2-3, hyalinae.
5. *Phyllosticta Pruni-spinosa* Allesch. Verz. Süd-Bay. Pilze III, p. 10. 2967  
*Hab.* in foliis vivis *Pruni spinosae*, in Bavaria. — Maculae cinereae, amphigenae; perithecia punctiformia; sporulae 5-8  $\times$  2-3, hyalinae demum olivaceae.
6. *Phyllosticta Pruni-avium* Allesch. Verz. Süd-Bay. Pilze III, p. 15. 2968  
*Hab.* in foliis vivis *Pruni avium*, in Bavaria. — Maculae flavo-brunneae, ambitu sanguineo; perithecia vix prominula; sporulae 8-10  $\times$  2,5-3, hyalinae.
7. *Phyllosticta argillacea* Bres. Hedw. 1894, p. 206. 2969  
*Hab.* in foliis *Rubi Idæi*, Königstein Saxoniae (KRIEGER). — Sporulae 6-9  $\times$  2-3, biguttatae; maculae fuscae.

9. *Phyllosticta spiræina* Brun. Misc. Myc. II, p. 33. 2970  
*Hab.* in foliis *Spirææ sorbifoliæ*, Saintes Galliæ. — Maculæ e brunneo pallentes; perithecia nigricantia; sporulæ 5-7  $\approx$  2, hyalinæ.
9. *Phyllosticta evonymicola* Tognini Contr. Micol. Tosc. p. 11. 2971  
*Hab.* in foliis vivis *Evonymi europæi*, in Etruria. — Maculæ candidæ, ochraceo-cinctæ; perithecia 80-130  $\mu$ . diam., ostiolo prominenti; sporulæ 2,5  $\approx$  0,5, hyalinæ.
10. *Phyllosticta turmalis* E. et Ev. New West-Amer. Fung. 23 in 2972  
*Erythea*, vol. II, 1894.  
*Hab.* in foliis *Vitis ripariæ*, Kansas Amer. bor. — Maculæ sparsæ, brunneolæ, atro-marginatæ; perithecia 60-75  $\mu$ . diam. nigra; sporulæ tereti-oblongæ, utrinque paullo crassiores, 3,5-5  $\approx$  1, hyalinæ.
11. *Phyllosticta apatela* Allesch. in Magn. Verz. Kissing. Pilze p. 8. 2973  
*Hab.* in foliis junioribus *Aceris platanoidis*, Unterfranken Germaniæ. — Maculæ minutæ, brunneæ; perithecia brunnea; sporulæ 6-10  $\approx$  2-3, hyalinæ, rectæ.
12. *Phyllosticta allantella* Sacc. in Brun. Misc. Myc. II, p. 32. 2974  
*Hab.* in foliis languidis *Lauri nobilis*, Saintes Galliæ. — Maculæ subochraceæ, brunneo-marginatæ; perithecia punctiformia, nigricantia; sporulæ 6  $\approx$  2, allantoidææ, hyalinæ.
13. *Phyllosticta lindericola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 354. 2975  
*Hab.* in foliis *Linderæ Benzoin*, Nuttallburg Virginæ Amer. bor. — Maculæ minutæ, pallide brunneæ; perithecia 100-120  $\mu$ . diam.; sporulæ 4-7  $\approx$  2-3, hyalinæ.
14. *Phyllosticta Anibæ* Masee Grev. XXII, p. 68. 2976  
*Hab.* in fructibus putrescentibus *Anibæ perutilis*, in Nova Granata. — Maculæ pallidæ, lineæ nigra circumscriptæ; perithecia nigra, conoidea; sporulæ 7-9  $\approx$  1,5, hyalinæ; basidia 5-6  $\approx$  1
15. *Phyllosticta Corni* (Schw.) Starb. Stud. Fries. Herb. pag. 46, 2977  
fig. 24 a. b, *Sphæria Corni* Schw. p. p. Syll. II, p. 439.  
*Hab.* in pag. inf. foliorum *Corni floridæ*, Pocono Am. bor. — Perithecia 75-125  $\mu$ . diam.; sporulæ 1,5-2  $\approx$  0,5-1.
16. *Phyllosticta Cinchonæ* Pat. Bull. Soc. myc. 1892, p. 135. 2978  
*Hab.* in foliis vivis *Cinchonæ*, San Nicolas Æquatoriæ. — Maculæ angulosæ, ochraceæ, brunneo-cinctæ; perithecia 80-100  $\mu$ . diam.; sporulæ 7  $\approx$  2, hyalinæ.
17. *Phyllosticta Sydowii* Bres. in Sydow Mycoth. march. Cent. XLI, 2979  
1894, n. 4072. — Peritheciis hypophyllis, nigris, prominulis, hinc

inde in greges numerosos maculiformes confertis, punctiformibus, pertusis 190-200  $\mu$ . diam., contextu celluloso, confuso; sporulis hyalinis, ellipticis, 7-8  $\approx$  3.

*Hab.* ad folia *Lonicæræ latifoliæ* in Germania.

18. *Phyllosticta punctata* Ell. et Dear. New Spec. Canad. Fung. in 2980  
Canad. Rec. Sc. 1893, p. 268.

*Hab.* in foliis, quæ vexat, *Viburni Opuli*, Canada. — Maculæ albæ, rufo-cinctæ; perithecia 50-100  $\mu$ . diam., brunneola; sporulæ 6-8  $\approx$  3, succineæ.

19. *Phyllosticta Viburni* Ell. et Dear. New Spec. Canad. Fung. in 2981  
Canad. Rec. Sc. 1893, p. 268.

*Hab.* in foliis *Viburni Lentaginis*, Canada — Maculæ ferrugineo-brunneæ; perithecia epiphylla, 100-125  $\mu$ . diam.; sporulæ 4-5  $\approx$  2,5-3, brunneolæ.

20. *Phyllosticta discincola* E. et E. New Fung. in Proceed. Acad. 2982  
N. Sc. Philad. 1893, pag. 454.

*Hab.* in foliis *Forsythiæ cultæ*, Washington Amer. bor. — Maculæ amphigenæ, griseo-brunneæ, discoideæ; perithecia 100-110  $\mu$ . diam.; sporulæ 4-5  $\approx$  2,5-3, subolivaceæ.

21. *Phyllosticta Jasminorum* Tognini Contr. Mic. Tosc. p. 10. 2983

*Hab.* in foliis siccis *Jasmini officinalis*, in Etruria. — Maculæ ochraceæ, fusco-cinctæ; perithecia 45-85  $\mu$ . diam.; sporulæ 4-5  $\approx$  1, utrinque incrassatæ, hyalinæ.

22. *Phyllosticta jasmicola* (Desm.) Sacc. *Sphæria* Desm. XIII Not. 2984  
pag. 83.

*Hab.* in foliis *Jasmini officinalis*, in Gallia. — Maculæ albidæ; perithecia minutissima, pertusa; sporulæ oblongæ 4-5  $\mu$ . long., hyalinæ.

23. *Phyllosticta syringicola* Fautr. Rev. Myc. 1894, p. 10. 2985

*Hab.* in foliis *Syringæ vulgaris*, Coté-d'or Galliæ. — Maculæ rufescentes; perithecia hypophylla, applanata; sporulæ 12-15  $\approx$  2, pluriguttatæ.

24. *Phyllosticta Mimusopsidis* P. Henn. Fung. Æthiop. I, p. 122. 2986

*Hab.* in foliis *Mimusopsidis Schimperii*, in col. *Erythrææ*. — Maculæ rufo-brunneæ; perithecia punctiformia, nigra; sporulæ 5-8  $\approx$  2,5-3, hyalinæ.

25. *Phyllosticta Latifoliæ* E. et E. New Fung. Proceed. Acad. N. Sc. 2987  
Philad. 1893, p. 454.

*Hab.* in foliis *Kalmiæ latifoliæ*, Newfield N. J. Amer. bor. — Maculæ amphigenæ, orbiculares, ochraceo-brunneæ, atro-rubro-

marginatæ; perithecia 150-200  $\mu$ . diam.; sporulæ 6-8  $\approx$  2,5-3,5 hyalinæ; basidia æquilonga.

26. *Phyllosticta kalmicola* (Schw.?) E. et E. in Proceed. Acad. N. Sc. 2988  
Philad. 1893, p. 454, *Depazea kalmicola* Schw. Syn. Amer.  
n. 1812, p. p.

*Hab.* in foliis *Kalmiæ latifoliæ*, Newfield N. J. Amer. bor.

— Maculæ amphigenæ, albæ, atro-purpureo-cinctæ; perithecia 100-200  $\mu$ . diam.; sporulæ hyalinæ, 2-3  $\approx$  1.

27. *Phyllosticta Ledi* Rostr. Till. Grönl. Svamp. p. 623. 2989

*Hab.* in foliis *Ledi groenlandici*, Umilak Gröenlandiæ. —

Maculæ albo-griseæ, purpureo-cinctæ; perithecia minutissima; sporæ 11-13  $\approx$  4.

28. *Phyllosticta Dircæ* Ell. et Dear. New Spéc. Canad. Fung. in Can. 2990  
nad. Rec. Sc. 1893, p. 267.

*Hab.* in foliis *Dircæ palustris*, Canada. — Maculæ cinereæ, atro-cinctæ; perithecia 60-100  $\mu$ . diam., rufæ; sporulæ 5-8  $\approx$  2,5-3, hyalinæ.

29. *Phyllosticta Gelsemii* Ell. et Ev. Journ. Myc. VII, p. 131. 2991

*Hab.* in foliis *Gelsemii sempervirentis* culti, Newfield

N. J. Amer. bor. — Maculæ flavido-brunneæ, purpureo-cinctæ; perithecia minuta, nigra; sporulæ 12-16  $\approx$  3.

30. *Phyllosticta Cynanchi* Brun. Glan. mycol. ser. 2 Herbor. 1892, 2992

p. 6. — Maculis amphigenis, siccis albescentibus, rotundatis v. subangularibus, brunneo haud marginatis; peritheciis epi-hypophyllis minutis, atris, subglobosis, erumpentibus; sporulis ovato-oblongis, hyalinis, 7-8  $\approx$  3.

*Hab.* ad folia *Cynanchi acuti*, Fouras in Gallia.

31. *Phyllosticta glaucispora* Delacr. Bull. Soc. Myc. 1893, p. 266, 2993  
T. XIV, f. 5.

*Hab.* in foliis *Nerii Oleandri*, Sevilla Hispaniæ. — Maculæ albidæ, fusco-cinctæ; perithecia amphigena, atra; sporulæ 7  $\approx$  3, chlorinæ.

32. *Phyllosticta neriicola* Brun. Miscell. myc. p. 33. 2994

*Hab.* in foliis arescentibus *Nerii Oleandri*, Saintes Galliæ.

— Maculæ magnæ, pallide olivaceæ; perithecia nigra, prominula; sporulæ 8-10  $\approx$  3, hyalinæ.

33. *Phyllosticta Caricæ-Papayæ* Allesch. in Henn. Fung. goyaz. p. 114. 2995

*Hab.* in foliis vivis *Caricæ Papayæ*, in Brasilia (Ule). —

Maculæ subochraceo-pallidæ; perithecia minutissima, nigra; sporulæ 3-4  $\approx$  1, hyalinæ.

34. *Phyllosticta moricola* E. et E. New Fung. in Proceed. Acad. N. 2996  
Sc. Philad. 1893, pag. 455.

*Hab.* in foliis ramulorum Mori rubræ Kansas Amer. bor. —  
Maculæ amphigenæ, rufo-brunneæ dein expallentes, lateritio-margi-  
natæ; perithecia 100-110  $\mu$ . diam.; sporulæ 5-8  $\approx$  2,5-3, hyalinæ.

35. *Phyllosticta Roberti* Boy. et Jacz. Mat. mycol. Montpell. p. 39. 2997

*Hab.* in foliis Fici elasticæ pr. Montpellier. — Maculæ pal-  
lidæ, varix; perithecia tecta; sporulæ 20  $\approx$  5.

36. *Phyllosticta maculans* E. et E. New Sp. North Amer. Fung. in 2998  
Proceed. Acad. S. N. Philad. 1893, p. 157.

*Hab.* in foliis Populi moniliferæ, Kansas Amer. bor. —  
Maculæ obsoletæ; perithecia 50-70  $\mu$ . diam., nigra; sporulæ 10-14  
 $\approx$  3-3,5, hyalinæ.

37. *Phyllosticta confertissima* E. et E. New Fung. in Proceed. Acad. 2999  
N. Sc. Philad. 1893, p. 455.

*Hab.* in foliis Ulmi fulvæ, Kansas Amer. bor. — Maculæ  
atro-rufæ, amphigenæ; perithecia 75  $\mu$ . diam.; sporulæ 3-4  $\approx$  1,  
allantoideæ, hyalinæ.

38. *Phyllosticta Castaneæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 357. 3000

*Hab.* in foliis Castaneæ vascæ, in Virginia Amer. bor. —  
Maculæ ochraceæ, obscurius marginatæ; perithecia 100  $\mu$ . diam.,  
collabentia; sporulæ 5-7  $\approx$  2-2,5, hyalinæ.

39. *Phyllosticta agrifolia* E. et E. New Californ. Fung. in Erythea 3001  
1893, p. 146.

*Hab.* in foliis Quercus agrifoliæ in California. — Maculæ  
ferrugineo-brunneæ, rufo-marginatæ; perithecia 150-200  $\mu$ . diam.  
amphigenæ; sporulæ 6-8  $\approx$  2,5-3, hyalinæ.

40. *Phyllosticta Quercus-Prini* Ell. et Ev. Proc. Acad. Phil. 1894, 3002  
p. 356.

*Hab.* in foliis Quercus Prini, in Virginia Amer. bor. —  
Maculæ ochraceo-brunneæ; perithecia 80-110  $\mu$ . diam.; sporulæ  
5-6,5  $\approx$  2-2,5, hyalinæ, curvulæ.

## II. In Dicotyledoneis herbaceis.

41. *Phyllosticta Clematidis* Ell. et Dear. New Spec. Canad. Fung. in 3003  
Canad. Rec. Sc. 1893, p. 268.

*Hab.* in foliis Clematidis Viornæ var. coccineæ, Ca-  
nada. — Maculæ flavidæ vel albidæ, rufo-marginatæ; perithecia  
50-75  $\mu$ . diam.; sporulæ 4-5  $\approx$  2,5-3, hyalinæ.

42. *Phyllosticta Anemonis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 356. 3004

*Hab.* in foliis *Anemonis pensylvanicæ*, Michigan Amer. bor. — Maculæ late brunneæ, venulis limitatæ; perithecia 90-110  $\mu$ . diam.; sporulæ 5-7  $\approx$  1,3, curvulæ.

43. *Phyllosticta Hepaticæ* Brun. Misc. Myc. II, p. 33. 3003

*Hab.* in foliis *Hepaticæ trilobæ*, Saintes Galliæ. — Maculæ marginales e brunneo pallentes; perithecia nigra, punctiformia; sporulæ 7-8  $\approx$  2,5-3, hyalinæ.

44. *Phyllosticta aquilegicola* Brun. Misc. Myc. II, p. 33. 3006

*Hab.* in foliis languidis *Aquilegiæ vulgaris* pr. Saintes Galliæ. — Maculæ obsoletæ brunneolæ; perithecia crebra, nigra; sporulæ 8  $\approx$  2, hyalinæ.

45. *Phyllosticta Ellisiana* Lamb. et Fautr. Rev. Myc. 1894, p. 76. — 3007

Maculis rotundatis, griseis, purpureo limitatis; peritheciis vix præminentibus, membranaceis, rotundatis, late pertusis; sporulis ovoideis, hyalinis, simplicibus, 5-6  $\approx$  2-2,5.

*Hab.* ad folia *Anemonis virginianæ*, Cote-d'Or in Gallia.

46. *Phyllosticta helleboriana* Brun. Fl. Myc. Saint. et Four. in Bull. Soc. Sc. Nat. Louest. p. 217. 3008

*Hab.* in foliis languidis *Hellebori fœtid*, Saintes Galliæ. — Maculæ griseæ, brunneo-cinctæ; perithecia atra, microscopica; sporulæ 3  $\approx$  2,5, hyalinæ.

47. *Phyllosticta Lepidii* Brun. Misc. Myc. p. 34. 3009

*Hab.* in foliis *Lepidii graminifolii*, Saintes Galliæ. — Maculæ minutæ e brunneo pallentes; perithecia punctiformia, nigra; sporulæ 5  $\approx$  2, hyalinæ.

48. *Phyllosticta allantospora* Ell. et Ev. Proc. Acad. Phil. 1891, 3010 p. 355.

*Hab.* in foliis *Cakiles americanæ*, New Jersey Amer. bor. — Maculæ pallide brunneæ, olivaceo-cinctæ; perithecia 100-110  $\mu$ . diam.; sporulæ 3-5  $\approx$  1,3, hyalinæ.

49. *Phyllosticta Orbicula* E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 1893, p. 455. 3011

*Hab.* in foliis *Armoraciæ*, Canada. — Maculæ orbiculares amphigenæ, albæ, marginatæ; perithecia atra, 80-120  $\mu$ . diam.; sporulæ 4-6  $\approx$  2,5-3, ex hyalino subolivaceæ.

50. *Phyllosticta Chamæbuxi* Allescher in All. et Schnabl F. Bavar. 3012 n. 268 et Verz. Südbay. Pilze p. 5.

*Hab.* in foliis *Polygalæ Chamæbuxi*, in Bavaria. — Maculæ ochraceæ, rubro-cinctæ; perithecia hypophylla, nigra; sporulæ 10-12  $\approx$  1,5-2, hyalinæ.

51. *Phyllosticta cicerina* Prill. et Delacr. Bull. Soc. Myc. 1893, p. 273, 3013  
t. XIII, f. 4.

*Hab.* in utraque pagina folior. *Ciceris arietini*, Ondes Gallia. — Maculæ ochraceo-griseæ; perithecia 75  $\mu$ . diam.; sporulæ 12-14  $\approx$  4, hyalinæ.

52. *Phyllosticta Glycyrrhizæ* Brun. Misc. Myc. II p. 34. 3014

*Hab.* in foliis *Glycyrrhizæ glabræ* cultæ, Rochefort Gallia. — Maculæ brunneæ; perithecia punctiformia, nigra; sporulæ 7  $\approx$  2-2,2 hyalinæ.

53. *Phyllosticta Dolichi* Brun. Sphæröps. nouv. in Bull. Soc. Bot. Fr. 1893, p. 221. 3015

*Hab.* in foliis *Dolichi Lablab* culti, Saintes Gallia. — Maculæ brunneæ, atro-cinctæ; perithecia punctiformia, nigra; sporulæ 4,5-6  $\approx$  2, hyalinæ.

54. *Phyllosticta ferax* Ell. et Ev. Proc. Acad. Phil. 1894, p. 355. 3016

*Hab.* in foliis languidis *Lupini albifrontis*, in California. — Maculæ brunneæ, epiphyllæ; perithecia 110-150  $\mu$ . diam., perforata; sporulæ 3-4  $\approx$  1-1,2, hyalinæ.

55. *Phyllosticta Ludwigæ* Peck 44 Rep. p. 23, t. IV, fig. 22-23. 3017

*Hab.* in foliis vivis *Ludwigæ palustris*, in America boreali. — Maculæ pallidæ, rufo-marginatæ; perithecia 100  $\mu$ . diam.; sporulæ 7-9  $\approx$  4, hyalinæ.

56. *Phyllosticta citrullina* Chester in Bull. Torr. bot. club. 1891, p. 374, 3018  
Journ. of Myc. VII, p. 159.

*Hab.* in foliis *Citrulli vulgaris*, in America boreali.

57. *Phyllosticta Apii* Halst. Rep. New Jers. Agr. St. 1891, p. 253, 3019  
c. icon.

*Hab.* in foliis *Apii graveolentis* in Amer. bor. — Maculæ brunneæ; perithecia crebra, punctiformia, atra, pertusa; sporulæ ovato-oblongæ, hyalinæ, eguttulatæ.

58. *Phyllosticta Eryngii* Speg. F. Guar. nonn. n. 133, p. 47. 3020

*Hab.* in foliis *Eryngii pandanifolii*, in Brasilia. — Maculæ indeterminatæ pallescentes; perithecia 50-80  $\mu$ . diam., pertusa; sporulæ 3-4  $\approx$  1,5, hyalinæ.

59. *Phyllosticta Araliæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 355. 2021

*Hab.* in foliis *Araliæ spinosæ*, in Virginia Amer. bor. — Maculæ læte brunneæ; perithecia 100-150  $\mu$ . diam.; sporulæ 10-15  $\approx$  5-6 hyalinæ.

60. *Phyllosticta Umbilici* Brunaud Miscell. mycol. II, pag. 34 (1891). 3022  
— Maculis indeterminatis, expallentibus; peritheciis laxè gregariis,



globoso-lenticularibus, poro pertusis, fuligineis, minute parenchymaticis, 150-180  $\mu$ . diam.; sporulis ellipsoideis, 2-guttulatis, hyalinis, 5-6  $\times$  2,5.

*Hab.* in foliis languidis Umbilici pendulini et U. erecti, in Gallia et Lusitania. — Homonyma species mea in Flor. mycol. Lusit. p. 14 (1893) non differt.

61. **Phyllosticta tenerrima** E. et E. New sp. North Amer. Fung. in 3023  
Proceed. Acad. S. N. Philad. 1893, p. 156.

*Hab.* in foliis vivis Saponariæ officinalis, London Canada. — Maculæ albæ; perithecia 60-100  $\mu$  diam.; sporulæ 4-6  $\times$  2-2,5, hyalinæ.

62. **Phyllosticta Otites** Brun. Misc. Myc. II, p. 34. 3024

*Hab.* in foliis Silenes Otites, Fouras Galliæ. — Maculæ obsolete olivaceæ. Perithecia punctiformia, nigra; sporulæ 8  $\times$  2,5-3, hyalinæ.

63. **Phyllosticta Aposeridis** Allesch. Hedw. 1894, p. 70. — Maculis 3025  
amphigenis, irregularibus, primum luteolis, demum ochraceo-fuscis; peritheciis hypophyllis, minutissimis, punctiformibus, numerosissimis, atris; sporulis subsphæroideis v. ovoideis, minutissimis, hyalinis, 3  $\times$  1-2.

*Hab.* in foliis Aposeridis foetidæ, in Bavaria. 3026

64. **Phyllosticta Senecionis-cordati** Allesch. Verz. Süd-Bay. Pilz. III, p. 13.

*Hab.* in foliis vivis Senecionis cordati, in Bavaria sup. — Maculæ subochraceæ; perithecia punctiformia, nigra, epiphylla; sporulæ 4-6  $\times$  2-2,5, hyalinæ.

65. **Phyllosticta Chrysanthemi** Ell. et Dear. New Spec. Canad. Fung. 3027  
in Canad. Rec. Sc. 1893, p. 268.

*Hab.* in foliis Chrysanthemi sinensis, Canada. — Maculæ purpureo-brunnæ; perithecia 80-100  $\mu$ . diam.; sporulæ 4-5  $\times$  2,5-3, fumosæ.

66. **Phyllosticta astericola** E. et E. New sp. North Amer. Fung. in 3028  
Proceed. Acad. S. N. Philad. 1893, p. 157.

*Hab.* in foliis Asteris umbellati, Kenosba Wisconsin Amer. bor. — Maculæ brunnescentes, flavido-marginatæ; perithecia 150-200  $\mu$ . diam., nigra; sporulæ 8-11  $\times$  4, hyalinæ.

67. **Phyllosticta Personatæ** Allesch. Fungi bav. exs. n. 359. 3029

*Hab.* in foliis subviviis vel emortuis Cardui Personatæ, Oberammergau Baviaræ. — Maculæ nullæ; perithecia epiphylla, dense gregaria, hemisphærica, minute papillata, atro-nitidula; spo-

rulæ minutissimæ, ovoideæ v. oblongæ, continuæ, hyalinæ, 2,5-4  $\approx$  1-2.

68. *Phyllosticta Dipsaci* Briard et Fautr. Rev. Myc. 1893, p. 22. 3030

*Hab.* in foliis *Dipsaci pilosi*, Côte-d'Or Galliæ. — Maculæ griseæ, centro denique pertusæ; perithecia 80-100  $\mu$ . diam.; sporulæ 6-9  $\approx$  2-3, hyalinæ.

69. *Phyllosticta Prostantheræ* Cooke Grev. XXI, p. 39. 3031

*Hab.* in foliis *Prostantheræ lasianthæ*, Victoria Australiæ. — Maculæ umbrinæ, atro-marginatæ; perithecia minuta, nigra; sporulæ 8  $\approx$  5, hyalinæ; basidia brevissima.

70. *Phyllosticta Betonice* Brun. Misc. myc. II, p. 34 (1891) *Ph. Be 3032*  
*tonice* Allesch. Hedw. 1894, p. 70.

*Hab.* in foliis *Betonice officinalis*, Saintes Galliæ et in Bavaria. — Maculæ albæ, brunneo-cinctæ; perithecia punctiformia, gregaria, nigra; sporulæ 5  $\approx$  1,5-2, hyalinæ, oblongo-bacillares.

71. *Phyllosticta Basilici* Brun. Misc. myc. II, p. 35. 3033

*Hab.* in foliis languidis *Ocimi Basilici*, Saintes Galliæ. — Maculæ griseo-fuscæ; perithecia atra, minuta; sporulæ 8  $\approx$  2,5 hyalinæ.

72. *Phyllosticta Stachydis* Brun. Misc. myc. II, p. 35. 3034

*Hab.* in foliis *Stachydis silvaticæ* pr. Saintes Galliæ. — Maculæ brunneæ; perithecia punctiformia, nigra, crebra; sporulæ 4-6  $\approx$  2, hyalinæ.

73. *Phyllosticta Brunellæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 355. 3035

*Hab.* in foliis *Brunellæ vulgaris*, Washington Amer. bor. — Maculæ ochraceo-brunneæ, subangulosæ; perithecia minutissima; sporulæ 3-3,5  $\approx$  0,5-0,7, utrinque incrassatæ.

74. *Phyllosticta nicotiana* E. et E. New sp. North Amer. Fung. in 3036  
Proceed. Acad. S. N. Philad. 1893, p. 157.

*Hab.* in foliis *Nicotianæ Tabacci*, in Carolina sup. Amer. bor. — Maculæ brunnescentes, ~~rufæ~~ *rufæ*-zonatæ; perithecia 200  $\mu$ . diam., nigra; sporulæ 3,5-5  $\approx$  1,5, hyalinæ.

75. *Phyllosticta perforans* E. et E. New sp. North Amer. Fung. in 3037  
Proceed. Acad. S. N. Philad. 1893, p. 157.

*Hab.* in foliis *Solani Dulcamaræ*, Canada. — Maculæ pallidæ, flavo-marginatæ. — Perithecia lenticularia, nigra, 100-120  $\mu$ . diam.; sporulæ subolivaceæ, 3,5-5,5  $\approx$  2,5.

76. *Phyllosticta Melampyri* Allesch. Hedw. 1894, p. 70. — Maculis 3038  
amphigenis, pallide ochraceis, subcircularibus, obscurius margina-

- Sphærospideæ, Sphærioides, Hyalosporæ, Phyllosticta. 481
- tis; peritheciis epiphyllis, depressis, ochraceis; sporulis cylindraceis, utrinque rotundatis, continuis, hyalinis 8-12  $\approx$  2-3.
- Hab.* in foliis *Melampyri silvatici*, in Bavaria.
77. *Phyllosticta Gentianellæ* Massal. Nuova contr. Mic. veron. p. 40. 3039
- Hab.* in foliis languidis *Gentianæ asclepiadeæ* in M. Baldo Veron. — Maculæ pallidæ, flavido-cinctæ; perithecia 40-55  $\mu$ . diam.; sporulæ 2,5-4  $\approx$  0,7-1, hyalinæ.
78. *Phyllosticta plantaginella* Sacc. sp. nov. — Maculis amphigenis, 3040 subcircularibus, pallidis vix v. fusco-marginatis; perithecia epiphyllis, lenticularibus, late pertusis, ochraceo-fuscis, 90-100  $\mu$ . diam.; sporulis breve tereti-allantoideis, 9  $\approx$  2-3, curvulis, hyalinis e basi sporigera immediate oriundis.
- Hab.* in foliis vivis *Plantaginis majoris*, Lyndonville N. J. Amer. bor. (C. E. FAIRMAN).
79. *Phyllosticta prostrata* Brun. Sphærops. nouv. in Bull. Soc. Bot. 3041 Fr. 1893, p. 221.
- Hab.* in foliis *Veronicæ prostratæ*, Fouras Galliæ. — Maculæ albidæ fusco-cinctæ; perithecia parca; nigra; sporulæ 6-7  $\approx$  2, hyalinæ.
80. *Phyllosticta Cyclaminis* Brun. Misc. myc. II, pag. 34 (1891), De- 3042 lacr. in Bull. Soc. Mycol. 1893, p. 266, t. XIV, fig. 4 (non differre videtur).
- Hab.* in foliis, quæ vexantur, *Cyclaminis persici culti*, Saintes et Melun Galliæ. — Maculæ brunneæ; perithecia 100-110  $\mu$ . diam., sporulæ 6-8  $\approx$  2, hyalinæ.
81. *Phyllosticta Valerandi* Brun. Fl. Myc Saint. et Four. in Bull. 3043 Soc. Sc. N. de l'Ouest, p. 218.
- Hab.* in foliis *Samoli Valerandi*, Fouras Galliæ. — Maculæ albæ, brunneo-cinctæ; perithecia parca, nigra; sporulæ 4-5  $\approx$  2,5, hyalinæ.

### III. In Monocotyledoneis.

82. *Phyllosticta Aplectri* Ell. et Ev. Proc. Acad. Phil. 1894, p. 356. 3044
- Hab.* in foliis *Aplectri hiemalis*, Delaware Amer. bor. — Maculæ albidæ, purpureo-marginatæ; perithecia 75-80  $\mu$ . diam.; sporulæ 6-9  $\approx$  5, hyalinæ.
83. *Phyllosticta Iridis* E. et E. New Fung. in Proceed. Acad. N. Sc. 3045 Philad. 1893, pag. 456.
- Hab.* in foliis *Iridis versicoloris*, Florida Amer. bor. —

Maculæ atro-purpureæ, demum purpureo-brunneæ; perithecia immersa, 4-6-consociata; sporulæ 9-11  $\approx$  2,5, hyalinæ.

84. **Phyllosticta Lillii** Ell. et Dear. New Spec. Canad. Fung. in Canad. Rec. Scienc. 1893, p. 267. 3043

*Hab.* in foliis Lillii superbi, Canada. — Maculæ pallidæ, rufo-marginatæ; perithecia 150-200  $\mu$ . diam.; sporulæ 4-5  $\approx$  3, pallide umbrinæ.

85. **Phyllosticta Philodendri** Allesch. P. Henn. Fung. goyaz. p. 113. 3047

*Hab.* in foliis languidis Philodendri, in Brasilia (ULB). — Maculæ subroseæ, sanguineo-cinctæ; perithecia minutissima, fusca, pertusa; sporulæ globosæ 5-6  $\mu$ . diam., hyalinæ.

86. **Phyllosticta Alismatis** Sacc. et Speg. — Syll. III, pag. 60. — 3048

forma **santonensis** Brun. Glan. mycol. ser. 2; Herbor. 1892, p. 7. — Maculis amphigenis, albidis, oblongis v. irregularibus; peritheciis epi-hypophyllis; sporulis ovatis, 7-8  $\approx$  3, hyalinis.

*Hab.* ad folia Alismatis Plantaginis, Saintes in Gallia.

**PHOMA** Fr. em. Desm. — Syll. III, p. 65, X, p. 138.

I. In Dicotyledoneis lignosis.

1. **Phoma pedunculi** Ell. et Ev. Proc. Acad. Phil. 1894, p. 157. 3049

*Hab.* in pedunculis vetustis Magnoliæ Fraseri, Nuttallburg Virg. Amer. bor. — Perithecia depressa, 0,5-0,7 mm. diam., papillata; sporulæ 7-11  $\approx$  2-2,5, hyalinæ 2-3-nucleatæ. — **Phoma Brunaudi** Sacc. Syll. X, pag. 140, ob homonymam præcedentem, nunc vocatur *Ph. camelliicola* Brun. Misc. mycol. II. p. 35.

2. **Phoma mixta** B. et C. — Syll. III, p. 90. — forma **santonensis** 3050

Brun. Glan. mycol. Ser. 3, Herbor. 1892-93, p. 4. — Peritheciis sparsis v. confertis, globulosis, atris, immersis, ostiolo tantum erumpentibus; sporulis subfusiformibus, 7-8  $\approx$  3.

*Hab.* ad ramulos emortuos Liriodendri Tulipiferæ, Saintes in Gallia.

3. **Phoma empetrifolia** Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 1893, p. 221. 3051

*Hab.* in ramulis emortuis Berberidis empetrifoliæ cultæ, Fouras Galliæ. — Perithecia globulosa, nigra, ostiolo erumpente; sporulæ 5-6  $\approx$  2, eguttatæ, hyalinæ.

4. **Phoma communis** Rob. in Desm. Pl. crypt. exs. n. 693 [in Herb. 3052

Brux.] Sacc. Fung. Herb. Bruxell. n. 22. — Peritheciis parallele seriatis, oblongis, erumpentibus, nigris, ostiolo sæpe ovali pertusis;

sporulis tereti-oblongis, curvulis hyalinis, 2-guttatis,  $6-7 \approx 1,5$ ; basidiis acicularibus,  $9 \approx 1$ , rectis, hyalinis.

*Hab.* in ramulis siccis petiolisque Tiliæ europææ in Gallia.

— Peraffinis formæ minori *Phomæ velatæ* Sacc. Syll. III, p. 92.

5. *Phoma pensylvanica* Ell. et Ev. Proc. Acad. Phil. 1894, p. 357. 3053

*Hab.* in ramis emortuis *Aceris pensylvanici*, Nuttallburg Virg. Amer. bor. (NUTTALL). — Perithecia 0,3–0,5 mm. diam., subsecta, intus albida, sparsa; sporulæ subglobosæ, 5–7,5  $\mu$ . diam., subhyalinæ.

6. *Phoma negundinicola* Thüm. var. *ramicola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 357. 3054

*Hab.* in ramis emortuis *Negundinis aceroidis* Virginia et Delaware Amer. bor. — Perithecia globosa, 0,2–0,3 mm. diam., prominula; sporulæ 10–13  $\approx$  4–4,5, hyalinæ, 1-nucleatæ.

7. *Phoma Xanthoceratis* Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 1893, p. 221. 3055

*Hab.* in ramulis emortuis *Xanthoceratis sorbifolii* culti Saintes Galliæ. — Perithecia subglobosa, nigra ostiolo erumpente; sporulæ 7–8  $\approx$  2, hyalinæ, 2-guttulatæ.

8. *Phoma cicinnoides* Fautr. Rev. Myc. 1893, p. 69. 3056

*Hab.* in cirris *Vitis viniferæ*, *Oidio* correptis, Côte-d'Or Galliæ. — Perithecia 100–120  $\mu$ . diam., applanata, aperta; sporulæ 5–6  $\approx$  2,5–3, hyalinæ.

9. *Phoma tersa* Sacc. Flor. mycol. lusit. p. 16. — Peritheciis dense gregariis, globoso-hemisphæricis, innato-emergentibus, obtusulis, atro-nitentibus,  $\frac{1}{2}$  mm. diam., ostiolo impresso; sporulis tereti-ellipsoideis, utrinque rotundatis,  $6 \approx 2,5$ , medio constrictulis, 2-guttatis, hyalinis; basidiis e thalamio flavido enatis, acicularibus, 20  $\approx$  1,5, hyalinis, 3057

*Hab.* in fructu siccio *Passifloræ* in Horto botanico, Coimbra Lusitanie (MOLLER).

10. *Phoma altipes* Sacc., *Phoma longicruris* Sacc. Fl. myc. lusit. p. 16 (nec Pass.). — Peritheciis amphigenis dense gregariis innato-emergentibus, subglobosis, depressis, nigris,  $\frac{1}{6}$ – $\frac{1}{8}$  mm. diam., grosse fuligineo-cellulosis; sporulis oblongis, rectis curvulisve, 8–9  $\approx$  2,5–3, biguttatis, hyalinis; basidiis bacillaribus, dense fasciculatis, 30–44  $\approx$  2, ramulo brevi inferne auctis, e thalamio fusco olivaceo oriundis. 3058

*Hab.* in foliis emortuis *Erythrinæ poianthæ*, Coimbra Lusitanie (MOLLER).

11. *Phoma fuchsina* Sacc. Fl. myc. lusit. p. 16. — Peritheciis laxe gregariis, amphigenis, globoso-depressis, velatis,  $\frac{1}{2}$  mm. diam.; sporulis tereti-ellipsoideis, utrinque rotundatis, grosse 2-guttatis,  $7 \approx 3$ , hyalinis; basidiis e thalamio fuligineo enatis, brevibus, sursum acutatis, hyalinis,  $5-6 \approx 2$ . 3059

*Hab.* in foliis emortuis dejectis *Fuchsiae* arborescentis in Horto botanico, Coimbra Lusitaniæ. — Socia adest *Sphaerella puncliformis*. — A *Ph. Fuchsiae* differt peritheciis follicolis, amplis, sporulis minutis etc.

12. *Phoma Garryæ* Brun. Fl. Myc. Saint. et Four. in Bull. Soc. Sc. N. Lovert, p. 218. 3060

*Hab.* in ramis emortuis *Garryæ* macrophyllæ cultæ, Rochefort Galliæ. — Perithecia globulosa, perforata, nigra. tecta; sporulæ  $6-7 \approx 2,5$ , hyalinæ, 2-guttatæ.

13. *Phoma Metrosideri* Mori Enum. F. Mod. III, p. 130. 3061

*Hab.* in foliis *Metrosideri* tomentosæ cultæ in horto bot. Modena Ital. bor. — Perithecia 200  $\mu$ . diam., maculicola; sporulæ  $5-7-2$ , hyalinæ, eguttulatæ.

14. *Phoma photinicola* Brun. Misc. myc. II, p. 35. 3062

*Hab.* in ramis emortuis *Photiniae* serrulatæ, Saintes Galliæ. — Perithecia tecta. globulosa, nigra; sporulæ  $8-10 \approx 2,5-3$ , biguttatæ, hyalinæ.

15. *Phoma pirina* (Fries.) Cooke Grev. XX, p. 86, *Sphaeria pirina* Fr. S. M. II, 494, Syll. II, n. 4374, p. 421. — Sporulæ hyalinæ,  $6 \approx 3$ . (In ramis Piri Mali). 3063

16. *Phoma Mespili* Oud. Contr. Myc. Pays-bas. XIV, p. 38. 3064

*Hab.* in ramulis *Mespili* germanicæ Wasenaar Nederlandiæ (DESTRÉE). — Perithecia tecta, nigra, dein erumpentia; sporulæ  $6-7 \approx 2,3$ , hyalinæ.

17. *Phoma Aucubæ* West. — Syll. III, p. 115. — f. *ramicola* Oud. l. c. In ramulis junioribus *Aucubæ* japonicæ in Nederlandia. Sporulæ  $6-9 \approx 2,5-3$ , biguttatæ. 3065

18. *Phoma vixconspicua* Lamb. et Fautr. Rev. Myc. 1893, p. 117. 3066

*Hab.* in capsulis siccis *Evonymi europæi*, Côte-d'Or Galliæ. — Perithecia minuta, grisea, cirro albo; sporulæ  $6-8 \approx 3-4$ , hyalinæ, eguttulatæ.

19. *Phoma aucubicola* Brun. Champ. Charente-Infer. 1892, p. 34. — Peritheciis sparsis v. confertis, minutis, nigris, globoso-depressis, sub epidermide immersis, nigro-limitatis, nunc maculas fuscas atrolimitatas formantibus, erumpentibus; sporulis oblongis, hyalinis  $3 \approx 2$ . 3067

*Hab.* ad truncos emortuos *Aucubæ japonicæ*, Charente inf. Galliæ.

20. *Phoma Hortensiæ* Brun. Fl. Myc. Saint. et Journ. in Bull. Soc. 3068  
Sc. N. de l'Ouest, p. 218.

*Hab.* in ramulis emortuis *Hydrangæ Hortensiæ*, Saintes Galliæ. — *Perithecia* subglobosa, nigra, tecta; sporulæ 5-7  $\approx$  2,5-3, hyalinæ, 2-guttatæ.

21. *Phoma Malvacei* Brun. Fl. Myc. Saint. et Jour. in Bull. Soc. Sc. 3069  
N. de l'Ouest, p. 318.

*Hab.* in ramis emortuis *Ribis malvacei*, Saintes Galliæ. — *Perithecia* globulosa, nigra, tecto-erumpentia; sporulæ 3-4  $\times$  2, hyalinæ.

22. *Phoma cytoporeæ* (Fr.) Starb. Stud. p. 47, fig. 26, *Sphæria* Fr. — 3070  
Syll. II, p. 419. — *Perithecia* 175-250  $\mu$ . diam.; sporulæ 6-7  $\approx$  2,5  
(In foliis *Vaccinii*).

23. *Phoma epidermidis* Fautr. Rev. Myc. 1893, p. 117. 3071

*Hab.* in ramulis vivis *Viburni Opuli*, Côte-d'Or Galliæ. — *Perithecia* depressa, papillata; sporulæ 4  $\times$  1, biguttatæ, chlorinæ.

24. *Phoma surculi* (Fr.) Cooke Græv. XVI, p. 91, Starb. Stud. p. 48; 3072  
*Sphæria* Fr. — Syll. II, p. 410. — *Perithecia* 150-300  $\mu$ . diam.;  
sporulæ 4-6  $\approx$  2-3 (In ramis *Sambuci nigræ*).

25. *Phoma Phillyrææ* Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 3073  
1893, p. 222.

*Hab.* in ramulis emortuis *Phillyrææ mediæ* in Gallia. — *Perithecia* minuta, nigra, tecta; sporulæ 6-7  $\times$  1,5-2, hyalinæ, biguttatæ.

26. *Phoma vaga* Rob. in Desm. Pl. crypt. exs. n. 692, (in Herb. Brux.), 3074  
Sacc. F. Herb. Brux. n. 26. — *Peritheciis* sparsis, globoso-depres-  
sis poro pertusis, erumpentibus, atris, 100-130  $\mu$ . diam.; sporulis  
ellipsoideo-oblongis, utrinque obtusis, 2-guttulatis, 6  $\approx$  3, hyalinis;  
basidiis bacillaribus, fasciculatis, 10-12  $\approx$  1,5, hyalinis.

*Hab.* in foliis emortuis *Catalpæ syringifoliæ* in Gallia.

27. *Phoma lyciella* Brun. Champ. Charente-Infer. 1892, p. 34. — 3075  
*Peritheciis* sparsis, nigris, conicis v. subglobosis, primitus obtectis  
dein erumpentibus, ostiolo papillato; sporulis oblongis, continuis,  
hyalinis, 2-guttulatis, 10  $\approx$  3.

*Hab.* ad ramos emortuos *Lycii barbari*, Charente inf. Galliæ.

28. *Phoma Cassythæ* Allesch. in P. Henn. Fung. goyaz. p. 114. 3076

*Hab.* in caulibus *Cassythæ filiformis*, Goyaz Brasiliæ  
(ULB). — *Perithecia* minutissima, nigra; sporulæ 2-10  $\approx$  2-4, egut-  
tulatæ, ex hyalino fuscellæ.



29. **Phoma Elæagni** Sacc. Syll. III, p. 114. — var. **ramulicola** Brun. 3077  
 Glan. mycol. Ser. 3. Herbor. 1892-93, p. 5. — Sporulis oblongis, hyalinis, biguttulatis 7-8 × 3.  
*Hab.* ad ramulos emortuos *Elæagni reflexæ*, Saintes in Gallia.
30. **Phoma Populi-nigræ** Allesch. Fungi bavar. exsicc. n. 362. 3078  
*Hab.* in foliis *Populi nigræ* pr. München Baviaræ. — *Perithecia* tecta, maculicola, sicca cupulata, nigra; sporulæ 15 × 2,5-3,5 guttatæ, hyalinæ, curvulæ. Ob sporulas majusculas ad *Macrophomam* accedit.
31. **Phoma pericarpii** (Schw. Cooke Grev. XX, p. 85, *Sphæria pe-* 3079  
*ricarpii* Schw. Amer. Bor. 1590 ex p. — Syll. II, p. 411. — Sporulæ minutæ, hyalinæ (In pericarpis *Juglandis* v. *Caryæ*). — Teste Starb., species *Schweinitziana* p. p. spectat ad *Sphærospidem*.
32. **Phoma exocarpina** Peck 46 Rep. p. 38. 3080  
*Hab.* in pericarpio *Caryæ porcinae*, Michigan Amer. bor. (Strickx). — *Perithecia* gregaria, subsuperficialia, 350 µ. diam., nigra; sporulæ 7-10 × 4, hyalinæ.
33. **Phoma Fici-populifoliæ** Mori F. Mod. III, p. 130. 3081  
*Hab.* in fructibus *Fici populifoliæ* in horto bot. Modena Ital. bor. — *Perithecia* 350 µ. diam.; sporulæ 8-9 × 1,5-3, hyalinæ, biguttatæ, stipitatæ.
34. **Phoma Ficus** Cast in Rab. H. M. ed. I, n. 1870, 1854 (in Herb. 3082  
 Brux.) eadem est ac *Phoma cinerescens* Sacc. Syll. III, p. 96, uti mihi suspicio erat. — Basidia acicularia, 7-8 × 2, recta.  
*Hab.* ad ramos emortuos decorticatos *Ficus Caricæ*, Genève Helvetiæ (Duby).
35. **Phoma Platani** Mori Enum. F. Mod. III, p. 130, 3083  
*Hab.* in foliis dejectis *Platani occidentalis* in horto botanico, Modena Ital. bor. — *Perithecia* lenticularia, exigua 60-70 µ. diam.; sporulæ 3 × 1, hyalinæ.
36. **Phoma platanista** Fautr. Rev. mycol. 1894, p. 161. 3084  
*Hab.* in cortice relaxato *Platani*, Côte-d'Or Galliæ. — *Perithecia* conferta, 80-100 µ. diam. globoso-ovoidea; sporulæ 6 × 1,5 hyalinæ, allantoideæ.
37. **Phoma glandicola** (Schw.) Cook Grev. XX, p. 85, *Sphæria glan-* 3085  
*dicola* Schw. Amer. bor. n. 1589. — Syll. II, p. 412 — Sporulæ 5 × 3; basidia 20 × 3 (In glandibus *quercuius*). Sec. Starb. specimina *Schweinitziana* sistunt quoque *Dothiorellam* et *Cryptostictim*.
38. **Phoma rhizophila** Delacr. Bull. Sec. Myc. 1893, p. 186, T. XII, F. I. 3086

- Hab.* in ligno radicum *Castaneæ vescae* in Gallia. — *Perithecia punctiformia*, nigra, pertusa; sporulæ 5-6  $\approx$  1,5, hyalinæ.
39. **Phoma taxicola** Oud. Contrib. Fl. myc. Pays-Bas XV, p. 12, 3087  
Hedw. 1894, p. 18. — *Peritheciis* sparsis, e peridermate erumpentibus  $\frac{1}{4}$ - $\frac{1}{2}$  m. lat.; sporulis ellipticis, continuis, hyalinis, rotundatis, extremitatibus 2-guttulatis, 9  $\approx$  4,5.  
*Hab.* ad ramulos *Taxi baccatæ* in Nederlandia.
40. **Phoma ephedricola** Brun. Champ. Charente-Infer. 1892, p. 34. 3088  
— *Peritheciis* punctiformibus, globulosis, confertis, brunneis v. brunneo-nigris; sporulis oblongis, continuis, hyalinis, 2-3  $\approx$  1,5-2.  
*Hab.* ad truncos *Ephedræ distachyæ*, Charente inf. Gallia.
41. **Phoma Bresadolæ** Sacc. Flor. mycol. Lusit. p. 15, *Blennoria no-* 3089  
*vissima* Bres. F. lusit. p. 8, nec Rabenh., Syll. III, p. 730. — *Peritheciis* laxe gregariis, epiphyllis, innato-prominulis globulosis, nigris, vix papillatis, minute cellulosis, 200  $\mu$ . diam; sporulis sessilibus, fusoides, curvulis, 11-12  $\approx$  3, utrinque medioque guttulis, dilutissime olivaceis.  
*Hab.* in foliis ascentibus *Cycadis revolutæ*, in Horto botanico Coimbra (MOLLER).
42. **Phoma cycadella** Sacc. Fl. mycol. lusit. p. 16. — *Peritheciis* 3090  
amphigenis, punctiformibus, nigris, late denseque gregariis, innato-prominulis, pertusis, 150  $\mu$ . diam., contextu minute celluloso, fuligineo; sporulis ovato-oblongis, 5-6  $\approx$  2, obsolete biguttatis, hyalinis.  
*Hab.* in foliis emortuis v. fere emortuis *Cycadis circinalis* in Horto botanico, Coimbra Lusitaniæ (MOLLER). — A *Ph. Bresadolæ* et a *Ph. Cycadis* diversa.

## II. In Dicotyledoneis herbaceis.

43. **Phoma Delphinii** Rabh. in Fiedler's Exs. sec. Cooke in Grevillea. 3091  
*Hab.* in caulibus *Delphinii Consolidæ* in Germania et Britannia. — Sporulæ 3-4  $\approx$  2.
44. **Phoma Rhæadis** Brun. Misc. myc. II, p. 35. 3092  
*Hab.* in caulibus emortuis *Papaveris Rhæadis*, Fouras Gallia. — *Perithecia* perexigua, nigra, pertusa; sporulæ 5-6  $\approx$  2,5, hyalinæ.
45. **Phoma Glaucii** Brun. Glan. mycol. Ser. 3, Herbor. 1892-93, p. 5. 3093  
— *Peritheciis* sparsis, globulosis, albo-brunneis, ostiolo erumpentibus; sporulis oblongis, apicibus obtusis, subhyalinis, 7  $\approx$  3.  
*Hab.* ad siliquas dissectas *Glaucii lutei*, Fouras in Gallia.

- 488      Sphæropsideæ, Sphærioideæ, Hyalosporæ, Phoma.
46. **Phoma Caulophylli** E. et E. New Sp. north Amer. Fung. in Pro- 3094  
ceed. Acad. S. N. Philad. 1893, p. 158.  
*Hab.* in caulibus emortuis *Caulophylli thalictroidis*, Ca-  
nada (DEARNESS). — *Perithecia elliptica* 0,5–0,7 mm. longa, nigra;  
sporulæ 8–12 × 2,5–3, hyalinæ, 2-guttatæ.
47. **Phoma Napobrassicæ** Rostr. Zeitschr. für Paras. 1894, p. 323. 3095  
*Hab.* in radicibus *Brassicæ oleraceæ* var. *Napobrassicæ*  
in Dania. — *Perithecia punctiformia*, atra; sporulæ 4–6 × 1–2, ob-  
longæ, hyalinæ. Species valde noxia.
48. **Phoma Raphani** Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 1893, 3096  
p. 222.  
*Hab.* in caulibus emortuis *Raphani Raphanistri*, Saintes  
Galliæ. — *Perithecia minuta*, nigra; sporulæ 8–10 × 2,5, biguttatæ,  
hyalinæ.
49. **Phoma raphanicola** Brun. Glan. mycol. ser. 3. Herbor. 1892–93 3097  
p. 5. — *Peritheciis sparsis* v. *approximatis*, minutis subconicis, atris  
v. brunneo-atris, vix erumpentibus; sporidiis ovoideo-oblongis, hya-  
linis 5–7 × 3.
- Hab.* ad siliquas *Raphani sativi*, Saintes in Gallia.
50. **Phoma Helianthemi** Allesch. Hedwig. 1894, p. 124. — *Peritheciis* 3098  
punctiformibus, perexiguis, epidermide tectis, dein erumpentibus;  
basidiis brevibus; sporulis perexiguis, continuis, hyalinis, 3–3,5 ×  
1–1,5.
- Hab.* in caulibus emortuis *Helianthemi oelandici* pr. Halle  
Germaniæ.
51. **Phoma duplex** Sacc. Flor. mycol. lusit. p. 17. — *Peritheciis* gregariis, innato-erumpentibus, globoso-oblongis, obtusis, nigris, 1,5 3099  
mm. long.  $\frac{1}{4}$  mm. lat.; sporulis fosoideo-oblongis, rectis, biguttatis  
7–8 × 2,5 hyalinis, e basidiis acicularibus 12–2,5 enatis, basidiis al-  
teris intermixtis filiformibus, hamatis 14–16 × 1.
- Hab.* ad caules emortuos *Balsaminæ hortensis*, Coimbra  
Lusitanæ (MOLLER).
52. **Phoma Meliloti** Allesch. Verz. Süd.-Bay Pilze III, p. 19. 3100  
*Hab.* in caulibus siccis *Meliloti altissimæ* pr. München  
Bavariæ. — *Perithecia minuta*, gregaria, tecta; sporulæ allantoi-  
dæ, 4–6 × 0,5–1, hyalinæ.
53. **Phoma subcircinata** E. et E. New Sp. North Amer. Fung. in 3101  
Proceed. Acad. S. N. Philad. 1893, p. 158.  
*Hab.* in leguminibus *Phaseoli lunati*, Newfield N. J. Amer.

bor. — Perithecia 70-90  $\mu$ . diam., nigra; sporulæ 5-6  $\approx$  2-2,5, hyalinæ 2-nucleatæ; basidia paullo longiora.

54. **Phoma roseola** Desm. Pl. cr. exs. n. 761 (in Herb. Brux.), Sacc. 3102  
F. Herb. Brux. n. 23. — Peritheciis erumpenti-superficialibus, nigris, globoso-inæqualibus, obtusis, subinde consociatis; nucleo roseolo; sporulis oblongis, obtusis, rectis, hyalinis, 2-guttatis, 5-7,5  $\approx$  1,7; basidiis.... non visis.

*Hab.* ad radices defossas Medicaginis sativæ, socia *Leptosphaeria circinante* in Gallia (M. DE LACROIX).

55. **Phoma Ononidis** Allesch. Hedw. 1894, p. 124. — Peritheciis gregariis 3103  
sparsisve, perexiguis, subcutaneis, dein erumpentibus, subglobosis, atris; basidiis? filiformibus, fasciculatis, brevibus; sporulis magnitudine varia, ovoideis v. subovoideis, oblongis, utrinque obtusis, hyalinis, enucleatis, 6-10  $\approx$  2,5-5.

*Hab.* in truncis ramulisque Ononidis spinosæ, pr. Halle Germaniæ.

56. **Phoma Zopfi** Allesch. Hedwigia 1894, p. 123. — Peritheciis gre- 3104  
gariis v. sparsis, mediocribus, subcutaneis dein erumpentibus, depressis, papillatis, parenchymaticis, atris; basidiis nullis; sporulis numerosissimis, oblongis, utrinque obtusis, hyalinis, enucleatis 5-8  $\approx$  2-3.

*Hab.* in truncis ramulisque Ononidis spinosæ pr. Halle Germaniæ.

57. **Phoma Gramma** (Schw.) Starb. Stud. p. 51, f. 28. *Sphæria* Schw. 3105  
— Syll. II, pag. 434. — Perithecia 125-200  $\mu$ . diam.; sporulæ 2,5-3  $\approx$  2 (in foliis Stylosanthis).

58. **Phoma obscurans** Ell. et Ev. Proc. Acad. Phil. 1894, p. 357. 3106

*Hab.* in foliis Fragariæ cultæ in Virginia et New Jersey Amer. bor. — Perithecia maculicola, convexo-prominula, parca; sporulæ 4,5-5,5  $\approx$  1,5-2, hyalinæ, biguttatæ.

59. **Phoma Poterii** Fautr. Rev. mycol. 1894, p. 162, t. CL, f. 7. 3107

*Hab.* in caulibus siccis Poterii Sanguisorbæ, Côte-d'Or Galliæ. — Perithecia 100  $\mu$ . diam., pertusa, conferta; sporulæ curvatæ, 6-8  $\approx$  3-4, hyalinæ.

60. **Phoma Dilleniana** Rabenh. F. Eur. n. 960 (in Herb. Brux.), Sacc. 3108  
F. Herb. Brux. n. 24. — Peritheciis gregariis, exiguis, innato-erumpentibus, globoso-depressis, 150-250  $\mu$ . diam., poro pertusis; sporulis ellipsoideis, obtusulis 5-6  $\approx$  2,3-3, hyalinis, 2-guttulatis.

*Hab.* in caulibus emortuis Anodæ Dillenianæ cultæ prope Doemitz Megapol. (Doct. FIEDLER).

61. **Phoma Anthrisci** Brun. Misc. myc. II, p. 35.

3100

*Hab.* in caulibus siccis *Anthrisci vulgaris*, Saintes Galliæ.

— *Perithecia* globulosa, compressa v. linearia, nigra; sporulæ 8-10  $\approx$  2,5, hyalinæ, biguttatæ.

62. **Phoma grammica** Moug. Stirp. Vogeso-rhen. n. 1459 et in Roum. 3110  
Fung. Gall. n. 381 (nec Lév.).

*Hab.* in caulibus *Ammi majoris* in Vogesis. — *Perithecia* tecta, seriata, depressa, orbiculari-inæqualia, demum latiuscule aperta, nigricantia, 200-250  $\mu$ . diam.; sporulæ fusoidæ, nubilosæ, hyalinæ 8-11  $\approx$  2-3; basidia filiformia, curvula, 115-25  $\times$  1.

63. **Phoma ammiphila** Lamb. et Fautr. Rev. Myc. 1894, p. 76. — 3111  
*Peritheciis* minutis, gregariis applanatis, astomis, flavescentibus v. griseis, ex epidermide indurata colorataque vèrisimiliter efformatis; sporulis variis normaliter ovatis, oblongis, 8-10  $\approx$  4-5; basidiis brevibus.

*Hab.* ad caules dissectos *Ammi majoris*, Côte-d'Or in Gallia.

64. **Phoma Podagrariæ** Bres. Hedw. 1891, p. 206.

3112

*Hab.* in caulibus *Ægopodii Podagrariæ*, Königstein Saxoniæ (KRIEGER). — *Perithecia* 0,3-0,5 mm. diam., subcutaneo-erumpentia, demum peziziformia, papillata; sporulæ cylindræ 5-7  $\approx$  2-2,5.

65. **Phoma Rostrupii** Sacc. *Ph. sanguinolenta* Rostr. Zeitschr. für 3113  
Parasit. 1894, p. 193 t. IV, nec Grove (1885).

*Hab.* in radicibus caulibusque *Dauci Carotæ* cultæ, quam necat, in Dania. — *Perithecia* hemisphærica, gregaria, atra; sporulæ ellipsoideæ 4-6  $\approx$  1,5-3, in cirros filiformes tortuosos amœne sanguineos protrusæ.

66. **Phoma Solani** Halst. Rep. New Jers. Agr. St. 1891, p. 277 c. ic. 3114

*Hab.* in plantulis, quas maxime vexat, *Solani Melongenæ* in Amer. bor. — *Perithecia* innata, depressa, oblonga, late aperta; sporulæ oblongæ, stipitellatæ.

67. **Phoma Daturæ** Roll. et Fautr. Rev. Myc. 1893, p. 417.

3115

*Hab.* in caulibus *Daturæ Stramonii*, Côte-d'Or Galliæ. — *Perithecia* depressa, oblonga, pertusa; sporulæ 2-guttatæ, 8-10  $\approx$  2-2,5, hyalinæ.

68. **Phoma Centaureæ** Boy. et Jacz. Mat. mycol. Montpell. p. 34. 3116

*Hab.* in caule *Centaureæ Calcitrapæ* pr. Montpellier. — *Perithecia* tecta, pertusa, mycelio toruloideo copioso cincta; sporulæ cylindræ 7,5  $\approx$  4, biguttatæ, hyalinæ.

69. **Phoma Serratulæ** Allesch. Fungi bav. exs. n. 361.

3117

*Hab.* in caulibus *Serratulæ tinctoriæ* pr. München Ba. var. — *Perithecia* tecta, 80–100  $\mu$ . diam. late aperta; sporulæ 8–10  $\approx$  2, sæpe curvulæ, hyalinæ. Ad *Excipulam* accedit.

70. *Phoma inulicola* Brun. Misc. Myc. II, p. 36.

3118

*Hab.* in foliis siccis *Inulæ squarrosæ*, Fouras Galliæ. — *Perithecia* punctiformia, conferta, brunneo-nigra; sporulæ 4–5  $\approx$  2, hyalinæ.

71. *Phoma Hieracii* Rostr. Till. Grönl. Svamp. p. 623.

3119

*Hab.* in foliis *Hieracii prenanthoidis* in Groenlandia. — *Perithecia* minutissima, dense gregaria, amphigena; sporulæ 4  $\approx$  0,5, hyalinæ.

72. *Phoma foetida* Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 1893, p. 222.

3120

*Hab.* in caulibus siccis *Sambuci Ebuli*, Saintes Galliæ. — *Perithecia* maculæ nigræ innata, minuta; sporulæ 6–7  $\approx$  2, hyalinæ, 2-guttulatæ.

73. *Phoma diaporthella* Sacc. Myc. Sib. II, n. 32. — *Peritheciis* phyllocaulogenis, late gregariis, punctiformibus, globoso-depressis, atris, innato-erumpentibus, 100  $\mu$ . d.; sporulis tereti-oblongis, utrinque rotundatis, rectis v. inæquilateris, 9–10  $\approx$  3, hyalinis, 4-guttulatis.

3121

*Hab.* in foliis caulibusque siccis *Asperulæ paniculatæ* in silvis pr. fl. Golubaja Sibiriae. — Sporulæ ob guttulas quaternas sporidia *Diaporthæos* in memoriam revocant et a typo *Phomæ* recedunt.

74. *Phoma Cesaliana* J. Flageol. Rev. Myc. 1893, p. 117.

3122

*Hab.* in caulibus siccis *Echii vulgaris*, Saone et Loire (FLAGEOLET). — *Perithecia* subcutaneo-erumpentia, ostiolo longiusculo, decidue hirtello; sporulæ 10–12  $\approx$  2,5, hyalinæ, guttulatæ, coacervatæ roseolæ. Forte spermogonium *Ophioboli Cesaliani*.

75. *Phoma Flahaulti* Boyer et Jacz. Mat. mycol. Montpell. p. 33.

3123

*Hab.* in caule *Centranthi angustifolii* pr. Montpellier Galliæ. — *Perithecia* tecta, minuta, congesta; sporulæ falcatae, inæquales 20  $\approx$  15, hyalinæ.

76. *Phoma Trachelii* Allesch. Fungi bav. exs. n. 360.

3124

*Hab.* in caulibus *Campanulæ Trachelii* in Bavaria sup. — *Perithecia* tecta 60–80  $\mu$ . diam., poro 10–15  $\mu$ . diam.; sporulæ 4–6  $\approx$  1,5–2,5, eguttatæ, hyalinæ.

77. *Phoma capsularum* (Schw.) Starb. Stud. p. 49, fig. 27, *Sphæria* Schw. — Syll. II, p. 424. — *Perithecia* 100–150  $\mu$ . d.; sporulæ 8–10  $\approx$  2,5–3,5 (In capsulis *Convolvuli purpurei*).

3125

78. **Phoma sepium** Brun. Glan. mycol. ser. 3. Herbor. 1892-93, p. 5. 3126  
— Peritheciis sparsis, minutis, globulosis, atris, erumpentibus; sporulis oblongo-elongatis, hyalinis, 10-12  $\approx$  4.

*Hab.* ad caules emortuos Calystegiae sepium, Fouras in Gallia.

79. **Phoma palustris** Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 3127 1893, p. 222.

*Hab.* in caulibus emortuis Euphorbiae palustris, Saintes Galliae. — Perithecia maculae nigrae innata; sporulae 4-4,5  $\approx$  2, hyalinae.

80. **Phoma euphorbicola** (Schw.) Starb. Stud. p. 51, fig. 29, *Sphaeria* Schw. — Syll. II, p. 397. — Perithecia 125-175  $\mu$ . diam.; sporulae 6-11  $\approx$  2,5-5, spurie 1-septatae. (Ad caules Euphorbiae marginatae). *Frank 211*

81. **Phoma Betæ** Rostr. Zeitschr. für *Phan.* 1894, p. 323, *Ph. sphaer.* 3129 *rosperma*. Rostr. Tidsskr. Landök 1885, p. 746, nec auct.

*Hab.* in radicibus Betæ vulgaris, cui noxia, in Dania, socio *Sporodesmio putrefaciente*, forte ejus stat. conid.

82. **Phoma amaranthicola** Brun. Champ. Charente-Infer. 1892, p. 34. 3130  
— Peritheciis confertis, minutis, brunneo-nigris, globosis, parum depressis, perforatis, obtectis dein erumpentibus; sporulis oblongis, griseo-hyalinis, minutis, 2-3  $\approx$  1,5-2.

*Hab.* ad truncos emortuos Amaranthi spinosi, Charente inf. Galliae.

83. **Phoma Amaranthi** Brun. Champ. Charente-Infer. 1892, p. 34. — 3131  
Peritheciis sparsis v. confertis, minutis, globuloso-depressis, nigris, erumpentibus; basidiis nullis; sporulis oblongis, utrinque rotundatis, hyalinis, 2-guttulatis, 7-8  $\approx$  3.

*Hab.* ad truncos emortuos Amaranthi albi, Charente inf. Galliae.

84. **Phoma sclerotioides** (Preuss) Sacc. Fung. Herb. Bruxell. n. 21, 3132  
*Plenodomus sclerotioides* Preuss, in Kl. Herb. Myc. n. 1281 (in Herb. Brux.). — Peritheciis erumpentibus oblongis, minutis, nigris, modo singulis, modo dothideoideo-connatis, poro rotundo pertusis; sporulis exiguis, elliptico-oblongis, 5-6  $\approx$  2, ex hyalino dilutissime olivaceis, 2-guttulatis; basidiis.... non visis.

*Hab.* in caulibus decorticatis herbarum elatiorum, Hoyerswerda Silesiae (Preuss). A typo *Plenodomi* satis recedit.

85. **Phoma exasperans** (Schw.) Sacc., *Sphaeria* (Dothidea) Schw. Ca- 3133  
rol. n. 220 Fr. S. M. II, p. 558, Cfr. Cooke Grev. XIII, p. 42. —



Confertissima, minima, nigra, atro-inquinans; peritheciis prominulis in maculam elongatam confluentibus; sporulis  $6 \times 1,5$ .

*Hab.* in foliis caulibusque herbarum in Carolina australi.

## II. In *Monocotyledoneis*,

86. *Phoma Phœnicis* (Ces.) Sacc. Fung. herb. Brux. n. 27, *Sphærella* 3134

*Phœnicis* Ces. in Rabenh. F. E. n. 2531 (in Herb. Brux.). — Peritheciis dense gregariis, innato-erumpentibus, nigris, globoso-ellipsoideis, poro impresso pertusis, depressis,  $\frac{1}{4} - \frac{3}{4}$  mm. long.; sporulis fusoides, rectis, 2-guttulatis,  $7-8 \times 2$ , hyalinis; basidiis bacillaribus, rectis,  $15 \times 1$ .

*Hab.* in spatha emortua *Phœnicis dactyliferæ*, in horto botanico Napoli (CESATI). *Sphærellam* ill. Cesati certe vidit, ego autem *Phomam* tantum.

87. *Phoma microsperma* Karst. Hedw. 1892, p. 298.

3135

*Hab.* in foliis emortuis *Phœnicis* et *Rhapidis flabelliformis* in calidariis Helsingfors Fenniae. — Perithecia punctiformia, atra innato-erumpentia; sporulæ  $1,5 \times 1$ , v.  $1 \mu$  diam.

88. *Phoma Pseudacori* Brun. Sphærops nouv. in Bull. Soc. Bot. Fr. 1893, p. 223.

3136

*Hab.* in foliis emortuis *Iridis Pseudacori*, Fouras Galliae. — Perithecia subglobosa, erumpentia, intus pallida; sporulæ  $5 \times 2,5$  hyalinæ.

89. *Phoma Smilacis* Boy. et Jacz. Mat. mycol. Montpell. p. 34.

3137

*Hab.* in caulibus *Smilacis* pr. Montpellier Galliae. — Perithecia tecta, minuta, pertusa; sporulæ  $4 \times 2,5$ .

90. *Phoma aspera* Boy. et Jacz. Mat. mycol. Montpell. p. 34.

3138

*Hab.* in caulibus *Smilacis* pr. Montpellier Galliae. — Perithecia globulosa, minuta; sporulæ inæquales, pluriguttulatae,  $30 \times 8,5$ . An *Stagonospora* immatura?

91. *Phoma detegens* Starb. Stud. p. 50, fig. 30, *Sphæria erumpens* 3139

Schw. — Syll. II, p. 421. — Perithecia 200-300  $\mu$  d.; sporulæ  $8-10 \times 1,5-2$  (In trunculis *Smilacis*). Teste Cooke Grev. XX, p. 86, sporulæ sunt tantum  $4-5 \times 2$ .

92. *Phoma Xyridis* Allesch. in P. Henn. Fung. goyaz. p. 114.

3140

*Hab.* in bracteis *Xyridis* sp. Goyaz. Brasiliæ (ULE). — Perithecia minutissima, depressa, pertusa, nigra; sporulæ  $10-14 \times 1,5-2,5$ , hyalinæ, guttulatæ.

93. *Phoma Schœni* Brun. Sphærops, nouv. in Bull. Soc. Bot. Fr. 1893, p. 223.

3141

*Hab.* in calamis emortuis *Schœni nigricantis*, Fouras Galliæ. — *Perithecia perexigua*, nigra; sporulæ hyalinæ 5-6  $\approx$  2-2,5.

94. **Phoma holoschœnicola** Brun. *Sphærops. nouv. ia* Bull. Soc. Bot. 3142  
Fr. 1893, p. 223.

*Hab.* in calamis *Scirpi Holoschœni*, Fouras Galliæ. — *Perithecia punctiformia*, nigra; sporulæ 4-5  $\approx$  2, hyalinæ.

95. **Phoma Scirpi** Brun. *Fl. Myc. Saint. et Jour.* in Bull. Soc. Sc. N. 3143  
Louest p. 218.

*Hab.* in foliis *Scirpi triquetri*, Fouras Galliæ. — *Perithecia globulosa*, nigra, erumpentia; sporulæ 5  $\approx$  2, hyalinæ, 2-guttatæ.

96. **Phoma caricicola** Brun. *Misc. Myc. II*, p. 36. 3144

*Hab.* in pag. sup. foliorum *Caricis ripariæ*, Saint-Sever Galliæ. — *Perithecia minuta*, nigra, tecta; sporulæ 7-10  $\approx$  2,5-3, hyalinæ. — Var. *minor* Brun. *Fl. mycol. Saint et Four.* p. 218: *perithecia punctiformia*; sporulæ 5-7  $\approx$  2-3, hyalinæ. In foliis siccis *Caricis muricatæ* et *C. divulsæ*, Saintes Galliæ.

97. **Phoma arenaria** Sacc. *Grev. XXI* p. 67. — *Peritheciis gregariis*, 3145  
*seriatis*; globosis, innatis, 100  $\mu$ . diam., epidermide diaphana velatis, poro pertusis; sporulis fusoideis, rectis, apice obtusioribus, 20-22  $\approx$  4-5, guttulatò-nubiosis, hyalinis; basidiis paliformibus, obtusulis, 8-10  $\approx$  3, hyalinis,

*Hab.* in foliis emortuis *Caricis arenariæ*, Saintes Galliæ (BRUNAUD).

98. **Phoma teretiuscula** Sacc., *Flor. mycol. lusit.* p. 16. — *Peritheciis* 3146  
*laxe seriatis*, innato-erumpentibus, globulosis, nigricantibus,  $\frac{1}{4}$  mm. diam., ostiolo non emergente; sporulis cylindræis, utrinque obtusulis, 2-guttatis, rectis, 12  $\approx$  2,5, hyalinis; basidiis bacillaribus, dense fasciculatis, varia longitudine, 18-30  $\approx$  2, uno alterove ramulo auctis, hyalinis.

*Hab.* in foliis emortuis *Caricis dimorphæ*, S. Clara pr. Coimbra Lusitaniæ. Ad *Dendrophomam* nutat.

99. **Phoma Maydis** Fautr. *Rev. myc.* 1894, p. 161. 3147

*Hab.* in culmis emortuis *Zææ Maydis* var. *Caraguæ*, Côte-d'Or Galliæ. — *Perithecia sparsa*, nigra, dein collabentia; sporulæ 4-6  $\approx$  1,5-2, cylindricæ.

100. **Phoma Brachypodii** Brun. *Fl. Myc. Saint. et Four.* in Bull. Soc. 3148  
Sc. N. Louert. p. 219.

*Hab.* in foliis emortuis *Brachypodii sylvatici*, Fouras Galliæ. — *Perithecia perexigua*, nigra; sporulæ 4-5  $\approx$  2, hyalinæ.

101. **Phoma Glyceriæ** Brun. Fl. myc. Saint. et Four. in Bull. Soc. Sc. 3149  
Nat. de l'Ouest p. 219.

*Hab.* in culmis emortuis *Glyceriæ spectabilis*, Saintes Galliæ. — *Perithecia globulosa, atro-nitidula, per epidermidem atro-maculatam erumpentia; sporulæ 3-5 = 2, hyalinæ.*

IV. In *Acotyledoneis* (et in *ficilibus*).

102. **Phoma Telmatejæ** Brun. Misc. Myc. II, p. 36. 3150

*Hab.* in caulibus emortuis *Equiseti Telmatejæ*, Le Breuil Magné Galliæ. — *Perithecia subglobosa, 0,3 mm. diam., tecta; sporulæ 8-10 = 3-35, hyalinæ, non guttatæ.*

103. **Phoma aspidiicola** Pegl. Contr. micol. avell. p. 20. 3151

*Hab.* in petiolis siccis *Aspidii*, Avellino (BERLESE). — *Perithecia majuscula, atra, duriuscula; sporulæ 3-4 = 2, hyalinæ, 2-guttatæ; basidia crassa, brevissima.*

104. **Phoma agaricicola** Rostr. Oest. Grönl. Svampe p. 26. 3152

*Hab.* in pileo *Agarici* cujusdam in Groenlandia. — *Perithecia exigua, sphæroideo-conica, papilla alba; sporulæ 4-5,5 = 1,5-2, oblongæ.*

105. **Phoma fictilis** Delacr. Bull. Sec. Myc. 1893, p. 186, Tab. XI, 3153  
fig. 7.

*Hab.* in vasis fictilibus udis in laboratoriis botanicis, Paris. — *Perithecia ochracea, 140 µ. diam., poro 12 µ. diam.; sporulæ 7 = 2,5-3, hyalinæ.*

**MACROPHOMA** (Sacc.) B. et V. — Syll. III, p. 90, X, p. 189.

1. **Macrophoma Aconiti** Berl. Micr. Tosc. in N. G. B. it. 1892, p. 159. 3154

*Hab.* in caulibus *Aconiti Napelli* in horto botanico pisano. — *Perithecia sparsa, 150-200 µ. diam., tecta, atra; sporulæ 20-23 = 7, hyalinæ, granulosa; basidia brevissima.*

2. **Macrophoma meloplaca** (Schw.) Cooke Grev. XX, p. 87, *Sphæria* 3155  
*meloplaca*, Schw. Amer. bor. 1753 — Syll. II, p. 43. — *Sporulæ ellipticæ, hyalinæ 20 = 10. (In caulibus herbarum).*

3. **Macrophoma rhoia** (Schw.) Sacc. *Sphæria rhoia* Schw. — Syll. 3156  
II, p. 416 — Cooke Grev. XX, p. 85 — *Sporulæ ellipsoideæ, grosse 1-guttatæ, 20 = 8. (In ramis Rhois glabræ).*

4. **Macrophoma Clematidis** Togn. Seconda Contr. Micol. tosc. p. 9. 3157

*Hab.* in caule *Clematidis*, Pescia Etruriæ. — *Perithecia globoso depressa, 250 µ. diam.; sporulæ 20-30 = 5-7, hyalino-chlorinæ; basidia 20 µ. long. filiformia.*

5. **Macrophoma crassipes** (Mont.) Sacc. *Sphæroopsis* Mont. in Berk. 3158  
Enum. fung. Port. et Bot. Zeit. 1854, p. 97. — Peritheciis gregariis, tectis; maculis supra perithecia atris, centro albis; sporulis oblongis, 30-35  $\mu$ . long.; basidiis robustis, sporula subduplo longioribus.  
*Hab.* in ramis emortuis Erythrinæ Cristæ-galli in Lusitania (WELWITSCH), socia *Septoria brunneola*.
6. **Macrophoma Eriobotryæ** Pegl. Contr. micol. Avell. p. 20. 3159  
*Hab.* in foliis languidis Eriobotryæ japonicæ, Avellino. — Perithecia 230-300  $\mu$ . diam., nigra, innato-erumpentia; sporulæ 20-22  $\times$  6-8, hyalinæ, granulossæ v. 2-guttatæ.
7. **Macrophoma Aceris** (Desm.) Sacc. Fung. herb. Bruxell. n. 28, 3160  
*Sphæroopsis Aceris* Desm. Pl. crypt. exs. n. 678 (in Herb. Brux.). — Peritheciis amphigenis, globoso-depressis  $\frac{1}{8}$ - $\frac{1}{6}$  mm. diam., nigris, erumpentibus, contextu parenchymatico, ad ostioli marginem prosenchymatico; sporulis ellipsoideo-oblongis, 12-14  $\times$  6, raro 18-20  $\times$  6, utrinque obtusulis, hyalinis; basidiis.... non visis.  
*Hab.* in foliis emortuis Aceris platanoidis var. lacinia-tæ, socia *Sphærella*, in Gallia.
8. **Macrophoma Negundinis** E. et E. New West-Amer. Fung. p. 23 in 3161  
Erythea vol. II, 1894.  
*Hab.* in ramulis Negundinis aceroidis, Fort Collins Colorado Amer. bor. (BAKER). — Perithecia 0,5-1 mm. diam., tecta discoidea; sporulæ 20-25  $\approx$  10-11, hyalinæ, granulossæ; basidia 15-20  $\approx$  5, conico-cylindrica.
9. **Macrophoma hederaceæ** Brun. Sphærops. nouv. in Bull. Soc. Bot. 3162  
Fr. 1893, p. 223.  
*Hab.* in ramulis emortuis Ampelopsidis hederaceæ, Saintes Galliæ. — Perithecia subglobosa, erumpentia, nigra; sporulæ 15  $\approx$  3-3,5, hyalinæ, biguttatæ, continuæ.
10. **Macrophoma vestita** Prill. et Delacr. Bull. Soc. mycol. 1894, p. 165, 3163  
t. VI, fig. C.  
*Hab.* in cortice radicis Theobromæ Cacao in America æquat. (DYBOWSKI). — Perithecia 300  $\mu$ . diam.; sporulæ 30  $\times$  15. Plantæ nutrici valde noxia.
11. **Macrophoma scutellata** (Othh) Sacc. *Sphæroopsis scutellata* Othh 3164  
Bern. Mittheil. 1868, p. 60.  
*Hab.* in ramis siccis Salicis pentandræ, Steffisburg Helvetiæ. — Perithecia cupulari-dimidiata, insculpta, fusca; sporulæ subsessiles, oblongæ, obtusæ, 20-34  $\approx$  13, hyalinæ, plasmate granuloso.

12. **Macrophoma versatilis** Peck 46 Rep. p. 30. 3165  
*Hab.* in ramis gallsique *Quercus ilicifoliae* Karnen Amer. bor. — Perithecia inaequalia, globosa v. hysteroidea, nigra; sporulae hyalinae, 13-15  $\approx$  6-7; basidia paullo breviora.
13. **Macrophoma Suberis** Prill. et Delacr. Bull. Soc. Myc. 1893, p. 271, 3166  
 tab. XIII, f. 1.  
*Hab.* in foliis *Quercus Suberis* in Alpibus maritimis Galliae. — Maculae griseae, ochraceo-cinctae. — Perithecia 350  $\times$  140, atra, subhemisphaerica; sporulae hyalinae 15-18  $\times$  10; basidia 15  $\approx$  4, 3-4-septata.
14. **Macrophoma Philodendri** Peck 46 Rep. p. 38. 3167  
*Hab.* in foliis *Philodendri pertusi* culti, Michigan Amer. bor. — Perithecia 250-350  $\mu$ . diam., interdum maculicola, varia, erumpentia, nigra, late dehiscentia; sporulae 15-20  $\approx$  4-5, oblongo-cylindratae, hyalinae, subinde binucleatae. «An *Gloeosporii* spec.?».
15. **Macrophoma Dracaenae-fragrantis** Mori Enum. F. Mod. III, p. 131. 3168  
*Hab.* in foliis *Dracaenae fragrantis* in horto botanico Modena. — Maculae obscure marginatae; perithecia atra, 180  $\mu$ . diam.; sporulae 18-21  $\approx$  3, guttulate; basidia longiuscula.

**APOSPHAERIA** Berk. — Syll. III, p. 169, X, p. 205.

1. **Aposphaeria kansensis** E. et E. New West-Amer. Fung. pag. 24, 3169  
 in Erythea vol. II, 1894.  
*Hab.* in ligno vetusto *Populi moniliferae*, Kansas Amer. bor. — Perithecia 0,3 mm. diam., erumpenti-superficialia, nigra, papillata; sporulae 10-12  $\times$  2,5-3, flavido-hyalinae, fusioideae.
2. **Aposphaeria pezizoides** Ell. et Ev. Proc. Acad. Phil. 1894, p. 358. 3170  
*Hab.* in ligno decorticato *Platani*, *Liquidambaris*, *Fraxini*, *Aceris*, *Salicis*, *Nuttallburg Virginiae occid.* (NUTTALL). — Perithecia 0,7 mm. diam., papillata, dein pezizoideo-collapsa; sporulae 6  $\times$  2,5 obtusae.
3. **Aposphaeria alpigena** Ell. et Ev. Proc. Acad. Phil. 1894, p. 358. 3171  
*Hab.* in ramis emortuis *Sambuci melanocarpi*, Colorado Amer. bor. (BAKER). — Perithecia 150-250  $\mu$ . diam., globoso-depressa; sporulae 3-3,5  $\approx$  1,5, hyalinae, enucleatae.
4. **Aposphaeria herbicola** E. et E. New West-Amer. Fung. p. 24 in 3172  
 Erythea vol. II, 1894.  
*Hab.* in caulibus herbarum e. g. *Phytolaccae*, California, Kansas Amer. bor. — Perithecia nigra, 0,5-0,7 mm. diam., papillata, subinde collabentia; sporulae 6-8  $\times$  2-2,5, hyalinae, 2-nucleatae.

5. **Aposphæria Oxybaphi** E. et E. New West-Amer. Fung. p. 24 in 3173  
Erythea vol. II, 1894.

*Hab.* in caulibus *Oxybaphi nyctaginei*, Kansas Amer. bor. — *Perithecia nigra*, 0,6–0,8 mm.; *sporulæ* 3–4,5 = 2–3, ex hyalino flavidæ.

**DENDROPHOMA** Sacc. — Syll. III, p. 178, X, p. 209.

1. **Dendrophoma didyma** Fautr. et Roum. Rev. Myc. 1892, p. 9. 3174

*Hab.* in ramis siccis tenellis *Quercus pedunculatæ*, Côte-d'Or Galliæ. — *Perithecia tecta nigricantia*, intus subolivacea; *sporulæ rectæ*, cylindraceæ, 4–6 = 1, in basidiis 50  $\mu$ . long., ramosis acro-pleurogenæ, supremæ binatæ, divergentes.

2. **Dendrophoma olivaceo-hirta** (Schw. p. p.) Starb. Stud. p. 54, f. 35, 3175

*Sphæria* Schw. — Syll. II, p. 416. — *Perithecia*  $\frac{1}{2}$ – $\frac{2}{3}$  mm. diam.; *sporulæ* 7–10 = 1,5–2, basidia multo longiora, ramosa. (In ramis *Mori albæ* in Amer. bor.).

3. **Dendrophoma albo-maculans** (Schw. p. p.) Starb. Stud. pag. 53, 3176

f. 32, *Sphæria* Schw. — Syll. II, p. 413. — *Perithecia* 150–200  $\mu$ . diam.; *sporulæ* 2,5–3 = 0,5–1; basidia ramosa 12–18 = 0,5–1. (In truncis *Syringæ*).

4. **Dendrophoma Solidaginis** (Fr.) Starb. Stud. p. 55, f. 34, *Sphæria* 3177

Fr. — Syll. II, p. 433. — *Perithecia* 300–400  $\mu$ . diam.; *sporulæ* 4–6 = 1,5–2. (Ad caules *Solidaginis* in Gallia).

5. **Dendrophoma Iridis** Roum. et Fautr. Rev. myc. 1892, p. 169. — 3178

*Peritheciis globosis*, tectis, tenuibus; *sporulis cylindraceis*, 4–5 = 1, in basidiis fasciculatis, 40 = 3–4, ramosis, alternatim pleurogenis.

*Hab.* in foliis siccis *Iridis fœtidissimæ*, Côte-d'Or Galliæ.

6. **Dendrophoma crastophila** Sacc. Myc. Sibir. II, n. 33. — *Peritheciis* 3179

in areis foliorum vivorum arescentibus amphigenis, dense gregariis, innato-erumpentibus, globulosis, obtusis, atronitidis, 150  $\mu$ . diam., hyphis brunneis cinctis; *sporulis minutis*, allantoideis, 4–5 = 0,7–1, hyalinis; basidiis filiformibus vage ramulosis, 15–20 = 2–2,5, ramulis fusoides apice acutis, hyalinis.

*Hab.* in apice arescenti foliorum vivorum *Hordei vulgaris* pr. Minussinsk Sibiricæ (MARTIANOFF).

**ASTEROMELLA** Pass. et Thum. — Syll. III, p. 182. — Ad hoc genus accedunt pycnidia *Meliolæ penicilliformis* (*sporulis subglobosis* 4–5  $\mu$ . long., hyalinis) et *Meliolæ Desmodii* (*sporulis subsphæricis* 6–8  $\mu$ . diam., hyalinis) a cl. GAILLARD descripta in Monogr. Meliol. p. 125.

1. **Asteromella fibrillosa** (Desm.) Sacc. *Perisporium* Desm. XXIV, 318  
Not. p. 10.

*Hab.* in caulibus *Scrophulariæ aquaticæ* in Gallia. — *Perithecia* gregaria, nitidula, globoso-depressa, minutissima, maculæ subcirculari brunneæ fibrillosæ insidentia, 120  $\mu$ . diam.; sporulæ 3-5  $\mu$ . diam., subglobosæ, hyalinæ. — Var. **producta** Rob. in Desm. l. c. maculis fibrillosis elongatis. In caulibus *Stachydis*, *Ballotæ*, *Menthæ* etc. in Gallia.

2. **Asteromella Homalanthi** Cooke et Massee Grev. XX, pag. 65. — 3181  
Maculis suborbicularibus, amphigenis, fuligineis, 1 cm. diam.; peritheciis minutissimis, superficialibus, nigris; sporulis ellipsoideis, hyalinis, 5  $\approx$  3.

*Hab.* in foliis *Homalanthi populifolii*, Queensland Australiæ (BAILEY).

**MYCOGALA** Rost. — Syll. III, p. 185. — Huc spectat **Mycogala minimum** (Fr.) Karst. *Sphærops. fenn.* p. 61, *Licea ? minima* Fr. — Syll. VII, p. 405. — *Perithecia* rufescenti-atra, vix 1 mm. diam. hemisphærica, laciniatim dehiscentia; sporulæ 10-12  $\mu$ . diam., umbrino-fuscellæ, spinulosæ.

**SPHÆRONÆMA** Fr. — Syll. III, p. 185, X, p. 213. — Ad hoc genus accedunt pycnidia *Meliolæ ambiguæ* (sporulis ovoideis, hyalinis) et *Meliolæ dichotomæ* (sporulis 7-8  $\approx$  3, hyalinis) a cl. GAILLARD descripta in Monogr. Mel. p. 125.

1. **Sphæronæma Brassicæ** Togn. Seconda Contr. Micol. tosc. p. 9. 3182

*Hab.* in caule putri *Brassicæ Rapæ* in Etruria. — *Perithecia* 178-220  $\mu$ . diam., atra, ostiolo 75-110  $\approx$  67; sporulæ 4-7  $\approx$  1, hyalinæ; basidia 10  $\mu$ . long.

2. **Sphæronæma Martianoffianum** Sacc. *Myc. Sib.* II, n. 34. — *Peritheciis* dense et late gregariis, amphigenis, innatis, mox superficialibus, conico-rostellatis, fragilibus, aterrimis, minute cellulosis, 80  $\mu$ . lat., 130  $\mu$ . alt.; sporulis (an cellulis thalamii interioribus?) globulosis, 4-6  $\mu$ . diam., hyalinis, cellulis angustioribus suffultis. 3183

*Hab.* in foliis emortuis putrescentibus *Delphinii elati* var. *cuneati* in pratis pr. lac. Kysikul Sibiricæ (MARTIANOFF).

3. **Sphæronæma hyalinum** Lam. et Fautr. *Rev. Myc.* 1892, p. 177, 3184

*Hab.* in caule *Senecionis Jacobææ*, Côte-d'Or Galliæ. — *Perithecia* nigra, superficialia, in collum diaphanum 80-100  $\approx$  70 surrecta; sporulæ 16-20  $\approx$  2, teretes, non cirrosæ expulsæ; basidia ramosa.



4. **Sphæronæma Cucurbitæ** Roll. et Fautr. Rev. Myc. 1894, p. 74, 3185  
tab. CLXI, f. 9. — Peritheciis immersis, atris, membranaceis, globulosis  $\frac{1}{4}$ – $\frac{1}{8}$  mm. diam., ostiolo longitudine variabili, cylindraceo, obtuso 75–100  $\mu$ . lat.; sporulis parvulis, hyalinis, oblongis 4–6 = 1,5–2; basidiis minimis v. nullis.

*Hab.* ad caules Cucurbitæ erectæ, Côte-d'Or in Gallia. — *Sph. subtili* affine.

5. **Sphæronæma longirostre** Clem. Bot. Surv. Nebr. Rep. III, 1893, 3186 p. 10.

*Hab.* in ramis vivis Cratægi tomentosæ, Saltillo Nebraska Amer. bor. — Perithecia 1–1,5 mm. diam., ostiolo longe cylindrico; sporulæ fusideo-elongatæ, curvulæ, 20 = 3, binucleatæ.

6. **Sphæronæma Physocarpi** Ell. et Ev. Proc. Acad. Phil. 1894, p. 358. 3187

*Hab.* in ramulis emortuis Physocarpi opulifolii in Virginia Amer. bor. — Perithecia hemisphærica, 150  $\mu$ . diam., rostro obtuso 90–115  $\mu$ . longo; sporulæ 7–9 = 2,5, hyalinæ, 2–3-nucleatæ.

7. **Sphæronæma Negundinis** E. et E. New. sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 158. 3188

*Hab.* in cortice Negundinis aceroidis, Philadelphia Amer. bor. — Perithecia nigra, conico-cylindrica, 1–1,5 mm. alta, 0,7 mm. cr. truncata; sporulæ 12 = 3, hyalinæ, 3–4-nucleatæ, in globulum carneum demum eructatæ.

8. **Sphæronæma Loniceræ** Peck 46 Rep. p. 31. 3189

*Hab.* in ramis vivis Loniceræ hirsutæ, Brownville Amer. bor. — Perithecia 200–300  $\mu$ . diam., tecta, nigra, longe rostrata; sporulæ hyalinæ 5–7 = 2–3, dein in globulum eructatæ.

9. **Sphæronæma fasciculatum** Mont. et Fries Not. in Ann. Sc. Nat. 1834, 2, I, p. 346, Sacc. Syll. III, p. 191. — Hedw. 1894, p. 71. — 3190  
Basidia subfasciculata, sursum breviter ramosa v. denticulata, non septata, hyalina, 40–50 = 1–2; sporulæ minutæ, subcylindrææ v. oblongæ, hyalinæ, 4–6 = 1–1,5.

*Hab.* in ramis Salicis, in Bavaria.

10. **Sphæronæma pulverulentum** (Nees) Starb. Stud. pag. 60, f. 39, 3191  
*Sphæria* Nees. — Syll. II, p. 413. — Perithecia 200  $\mu$ . alta; sporulæ 4–5 = 1,5. (In ramis Pini silvestris).

**GLUTINIUM** Fries — Syll. IV, p. 620, emend. Starb. Stud. p. 58. —  
— Perithecia cylindrææ verticalia; ad basim pseudoparenchymatica, hyphis tenerimis, flexuosis, erectis, intus radiantibus et in basidia transeuntibus composita. Sporulæ continuæ, hyalinæ.

1. *Glutinium lævatum* (Fr.) Starb. l. c. f. 38, *Sphæria* Fries — Syll. 3192 II, p. 422, *Glutinium exasperans* Fr. Syll. IV, p. 620. — Perithecia 0,3–0,5 mm. alt., 200  $\mu$ . crass.; sporulæ 5–7 = 1,5–2. (In ramulis Pruni).
2. *Glutinium palinum* (Fries) Starb. Stud. p. 59, f. 37, *Phoma palina* 3193 (Fr) Sacc. Syll. III, p. 97. — Perithecia depresso cylindracea; sporulæ 7–10 = 2–2,5. (In ramis Salicis).

**CHÆTOPHOMA** Cooke — Syll. III, p. 199, X, p. 216.

1. *Chætophoma coniformis* (Somm.) Starb. Stud. p. 61, f. 41, *Sphæ-* 3194  
*ria* Somm. Suppl. Fl. Lapp. p. 220.

*Hab.* in fructibus Pedicularis Sceptri, in subalpinis Salt-  
dalen Nordlandiæ. — Perithecia globoso-conica, subiculo cineta,  
 $\frac{2}{3}$ –1 mm. diam.; sporulæ 5–8 = 2–3.

2. *Chætophoma Glaucii* Boy. et Jacz. Mat. mycol. Montpell p. 39. 3195

*Hab.* in caulibus emortuis Glaucii lutei pr. Montpellier. —  
Sporulæ 10 = 3–4; perithecia *clypeo* tecta dicuntur. Quid?

3. *Chætophoma chlorospora* Speg. F. Guar. nonn. n. 134, p. 47. 3193

*Hab.* ad folia viva Randiæ sp. Guarapi Amer. austr. — Pe-  
rithecia superficialia subiculo maculoso insidentia, 50–60  $\mu$ . diam.,  
astoma, olivacea, glabra; sporulæ 6–7 = 3–3,5, chlorinæ, 1–guttatæ.

4. *Chætophoma amorphula* (Schw.) Starb. Stud. p. 62, f. 40, *Sphæ-* 3197  
*ria* Schw. — Syll. II, p. 425. — Perithecia 150–200  $\mu$ . diam.;  
sporulæ 2–3 = 1. (In ramulis Juglandis).

5. *Chætophoma setigera* Peck 46 Rep. p. 40

3198

*Hab.* in foliis vivis Quercus agrifoliæ, California Amer.  
bor. — Perithecia 100–120  $\mu$ . diam., subiculo nigricante insidentia  
parceque setulosa; setæ 70–100  $\mu$ . long.; sporulæ 4–5 = 2–2,5,  
hyalinæ.

**ASTEROMA** DC. — Syll. III, p. 201, X, p. 219.

1. *Asteroma Saxifragæ* E. et E. New sp. North Amer. Fung. in 3199  
Proceed. Acad. S. N. Philad. 1893, p. 158.

*Hab.* in foliis Saxifragæ bracteosæ in ins. St. George in  
mari Bering (MACOUN). — Perithecia epiphylla, globosa, 50–80  $\mu$ .  
diam., mycelio crustaceo nigro, effuso insidentia; sporulæ 5 = 2,  
parcæ.

2. *Asteroma nervisequum* (DC.) Fr. Summa p. 425, *Sphæria* DC. Fl. 3200  
fr. VI, p. 140, *Dothidea* Fr. S. M. II, pag. 563. — Hypophyllum,  
seriato-reticulatum, nervisequum; peritheciis globulosis, promi-  
nulis, levibus, nigris, astomis.

*Hab.* in foliis vivis *Melampyri* in Gallia.

3. **Asteroma Hederæ** Quest. Ms. in Desm. Pl. crypt. exs. n. 774, 3201  
*Asterina* Desm. l. c. Oudem. F. Neerl. n. 164 [in Herb. Brux.],  
 Sacc. Fung. herb. Brux. n. 48. — Specimina tam gallica quam  
 nederlandica omnino sterilia.

*Hab.* in foliis *Hederæ Helicis* in Gallia et Neerlandia.

4. **Asteroma gallicolum** Grog. in Desm. Pl. crypt. exs. n. 772 [in 3202  
 Herb. Brux.], Sacc. Fung. herb. Brux. n. 47. — Specimina omnino  
 inevoluta, sterilia.

*Hab.* in gallis ad folia *Fagi silvaticæ* in Gallia (GROGNOT).

**CICINNOBOLUS** Ehrenb. — Syll. III, p. 216, X, p. 220.

1. **Cicinnobolus Uncinulæ** Fautr. Rev. Myc. 1893, p. 16. 3203

*Hab.* ad *Uncinulam aduncam* in foliis *Populi*, Côte-d'Or  
 Gallie. — Perithecia exappendiculata, pallida; sporulæ 6-8  $\times$  3-4,  
 hyalinæ, versiformes.

**BYSSOCYSTIS** Riess Hedw. I, p. 23, t. III, f. 2 e, d, f. Bot. Zeit.  
 1853, pag. 236 (Ety. *byssos* et *cystis*, h. e. perithecia mycelio  
 floccoso inserta). — Perithecia verticaliter ellipsoideo-oblonga, atra  
 e mycelio albo, ramoso repente oriunda. Sporulæ oblongæ, cur-  
 vulæ, continuæ, hyalinæ. — «A *Cicinnobolo* vix differt».

1. **Byssocystis textilis** Riess l. c. — Peritheciis 100  $\mu$ . alt., 50  $\mu$ . 3204  
 cr.; sporulis 9-10  $\mu$ . long.

*Hab.* in foliis *Plantaginis majoris* in Germania. — Sec.  
 Tul. Carp. I, p. 216, forte sistit st. pycnidicum *Erys. lampro-*  
*carpæ*.

**SIROCOCCUS** Preuss — Syll. III, p. 217, X, p. 220.

1. **Sirococcus difformis** Karst. Hedw. 1892, p. 133. 3205

*Hab.* in ligno *Betulæ* prope Ruva Lapponiæ. — Perithecia  
 erumpenti-superficialia, subhysterioidea, astoma, 0,5-1 mm. lat.;  
 sporulæ 7-12  $\times$  1,5-2,5, continuæ, hyalinæ in catenulas simplices  
 digestæ.

2. **Sirococcus Halesiæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 358. 3206

*Hab.* in ramis emortuis *Halesiæ tetrapteræ*, Nuttallburg  
 Virginie (NUTTALL). — Perithecia subglobosa, erumpentia, 0,3 mm.  
 diam., nigra, papillata; sporulæ subglobosæ, chlorinæ, 3  $\mu$ . diam.,  
 3-6-catenulata; catenulæ simplices v. parce ramosæ.

**PYRENOCHÆTA** De Not. — Syll. III, p. 219, X, p. 220.

1. **Pyrenochæta papyricola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 359. 3207

*Hab.* in charta uda vetusta dejecta, Newfield N. J. Amer. bor.

— Perithecia subglobosa, 100–110  $\mu$ . diam., nigro-setulosa; sporulæ 3–3,5  $\mu$ . long., globosæ v. subellipsoideæ, hyalinæ.

2. **Pyrenochæta Resedæ** Faut. et Lamb. Rev. Myc. 1894, p. 7d. — 3208

Peritheciis gregariis, erumpentibus, ostiolo lato, setulis septatis, atris, 100  $\mu$ . et ultra long., circumdato; sporulis cylindræis, extremitate rotundatis, 14–18  $\mu$ .

*Hab.* ad caules siccos Resedæ luteolæ, Côte-d'Or in Gallia.

3. **Pyrenochæta Robiniæ** Togn. Seconda Contr. Mic. tosc. p. 10. 3209

*Hab.* in cortice Robiniæ Pseudacaciæ in Etruria. — Perithecia 180–260  $\mu$ . diam., setulæ 330  $\mu$ , circa ostiolum orientes; sporulæ 11–17  $\mu$ , granulosæ.

4. **Pyrenochæta Berberidis** (Sacc.) Brun. List. Sphærops. p. 23 (1886) 3210

*Phoma Berberidis* Sacc. — Syll. III, p. 72. — Eadem est et posterior *Pyr. Berberidis* Rich. (1889). — Syll. X, p. 220. — ergo delenda.

**VERMICULARIA** Fries — Syll. III, p. 221, X, p. 222.

1. **Vermicularia ochrochæta** E. et E. New sp. North Amer. Fung. 3211  
in Proceed. Acad. 1893, p. 159.

*Hab.* in pag. sup. foliorum Aceris pr. Ottawa Canada (MACOUN). — Perithecia subglobosa, nigra, 0,5 mm. diam., setulæ ochraceæ, 200–300  $\mu$ . long.; sporulæ 6–7  $\mu$  1,5 hyalinæ, leviter curvæ.

2. **Vermicularia neglecta** Sacc., Flor. myc. lusit. p. 18. — Perithe- 3212

ciis globoso-conicis, sparsis, innato-erumpentibus, 90–150  $\mu$ . diam., poro pertusis, setis divergentibus, rigidulis, fulvo-fuligineis, sursum pallidioribus, parce septatis, 50–150  $\mu$  6 parce vestitis; sporulis cylindræis, rectis, utrinque obtusulis, 12  $\mu$  2,5–3, hyalinis; basidiis obsoletis.

*Hab.* in foliis emortuis Cocculi laurifolii, Quinta Zombaria Lusitaniæ (MOLLER). — A *V. trichella* et *V. microchæta* sporulis minoribus rectis etc. recedit.

3. **Vermicularia petalicola** E. et Ev. New Fung. Proceed. Acad. N. 3213  
Sc. Philad. 1893, p. 456.

*Hab.* in petalis dejectis Liriodendri Tulipiferæ, Delaware Amer. bor. (COMMONS). — Perithecia subglobosa 0,3 mm. diam., breviuscule obtuse setulosa; sporulæ fusoideæ, curvæ, hyalinæ, 20  $\mu$  2–2,5.

4. **Vermicularia Cacti** (Schw.) Starb. Stud. pag. 63, f. 42, *Sphæria* 3214  
Schw. — Syll. II, p. 425. — Perithecia 150-300  $\mu$ . diam., setis  
rigidissimis 100-300  $\approx$  6-10; sporulæ 16-22  $\approx$  5-6. (In foliis *Opun-*  
*tiae*). — *Sphæria Asclepiadis* Schw. — Syll. II, 432. — eadem  
est ac *Vermicularia asclepiadea* Passer., teste Starb. l. c.

5. **Vermicularia hesperidicola** Oud. Contr. Myc. Pays-bas XIV, 3215  
p. 41.

*Hab.* in pericarpio Citri nobilis (Mandarino) in Nederlandia.  
— Perithecia nigricantia, conferta, fuligineo-setosa; sporulæ in  
massam roseam eructatæ, 14-25  $\approx$  4-5, hyalinæ, intus granulosæ.

6. **Vermicularia Podophylli** Ell. et Dear. New spec. Canad. Fung. in 3216  
Canad. Rec. Sc. 1893, p. 269.

*Hab.* in fructibus Podophylli peltati, Canada Amer. bor.  
— Perithecia conico-hemisphærica, 100-200  $\mu$ . diam., nigra; se-  
tulæ 100-125  $\approx$  4; sporulæ 16-23  $\approx$  3-3,5, hyalinæ, lunatæ.

7. **Vermicularia Vanillæ** Delacr. Bull. Soc. Myc. 1893, pag. 186, ta- 3217  
bula XII, fig. 1.

*Hab.* in foliis exsiccatis Vanillæ odoratæ in insula Mauritii  
Africæ. — Perithecia atra, hemisphærica astoma v. late aperta,  
120-140  $\mu$ . diam.; setæ fuscæ 160  $\approx$  5; sporulæ 27  $\approx$  11, intus gra-  
nulatæ, hyalinæ, interdum curvulæ.

8. **Vermicularia conidifera** Prill. et Delacr. Bull. Soc. Myc. 1893, 3218  
p. 273, T. XIII, f. 6.

*Hab.* in utraque pag. fol. Dracænarum in calidariis, Pari-  
siis. — Perithecia hemisphærica, 200-270  $\approx$  180-200, atra, subiculo  
fusco insidentia; setæ 260  $\approx$  3, subinde conidiferæ (*Acrocyllindrii*  
ad instar) conidia in basidiis bis verticillatis 21  $\approx$  3 digesta, hya-  
lina; 6-2,5; sporulæ 15-17  $\approx$  3, hyalinæ, obtusæ, curvulæ v. rectæ.

9. **Vermicularia Caricis** Brun. Fl. Myc. Saint. et Four. in Bull. Soc. 3219  
Sc. N. Ovest p. 219.

*Hab.* in foliis siccis Caricis divulsæ, Saintes Galliæ. —  
Perithecia seriata, nigra, apice setosa; sporulæ 18-22  $\approx$  3,5 rectæ,  
hyalinæ, 4-pluriguttulatæ. An, observante auctore, status *Cheto-*  
*mellæ atræ*?

**DOTHIORELLA** Sacc. — Syll. III, p. 235, X, p. 229.

1. **Dothiorella Mali** E. et E. New Fung. Proceed. Acad. N. Sc. Phi- 3220  
lad. 456.

*Hab.* in ramulis emortuis Piri Mali, Illinois Amer. bor. (BAR-  
THOLOMEW). — Stromata 1-2 mm. diam., innato-erumpentia; peri-

thecia intus alba, 0,2-0,3 mm. diam., immersa; sporulæ 18-20  $\approx$  4-5, hyalinæ, granulose, basidiis obtusis.

2. *Dothiorella Hippocastani* E. et E. New Fung. Proceed. Acad. N. 3221  
Sc. Philad. 456.

*Hab.* in ramis emortuis *Æsculi Hippocastani*, Newfield N. J. Amer. bor. — Stromata tecta 2 mm. diam., grisea; perithecia 8-12 in quoque stromate, intus albida, 100-150  $\mu$ . diam., papillata; sporulæ 20-25  $\approx$  5-6, fusoideæ, hyalinæ, breve stipitatæ.

3. *Dothiorella dura* (Pr.) Sacc. *Nemaspora* Preuss Hoyersw. n. 325, 3222  
p. 720,

*Hab.* in ramis Ribis, Hoyerswerda. — Stromata pulvinata, innata, rugosa; nucleis albidis; basidia conica, sporulæ ovoidæ, hyalinæ, nubilosæ, majusculæ.

4. *Dothiorella Fraxini* E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 159. 3223

*Hab.* in ramis emortuis Fraxini, Canada (DEARNESS). — Perithecia 2-4 valsoideo-conjuncta, innata, nigra, papillata; sporulæ 18-20  $\times$  10-12, hyalinæ, basidiis obtusis suffultæ.

5. *Dothiorella Pini-silvestris* Allesch. Fung. bav. exs. n. 364. 3224

*Hab.* in corticē ramulorum exsiccatorum Pini silvestris, pr. München Baviaræ. — Perithecia stromate fusco-atro, plano-pulvinato immersa, innato-erumpentia, globosa, nucleo albido; sporulæ 6-9  $\approx$  2,5-1,5 enucleatæ hyalinæ. — Affinis *D. pityæ*

6. *Dothiorella dispar* (Fr.) Starb. Stud. p. 64, f. 45, *Sphaeria* Fr. — 3225  
Syll. II, pag. 373. — Perithecia 250  $\mu$ . diam.; sporulæ 25-30  $\approx$  12-14 (In cortice Taxi, in Vogesis).

7. *Dothiorella glandicola* (Schw.) Starb. Stud. p. 64, f. 43, *Sphaeria* 3226  
Schw. — Syll. II, p. 412. — Perithecia 150-200  $\mu$ . diam.; sporulæ 15-20  $\approx$  12-14. (In glandibus Quercus).

8. *Dothiorella Platani* Briard et Fautr. Rev. Myc. 1893, p. 113. 3227

*Hab.* in ramis Platani orientalis, Côte-d'Or Galliæ. — Perithecia in stromate erumpenti conferta; sporulæ curvulæ, 3-4  $\approx$  1; basidia fusoidea, acuta, 15-20  $\mu$ . longa.

9. *Dothiorella latitans* (Fr.) Sacc. Syll. III, p. 241, Fung. herb. Brux. 3228  
n. 29. — Huc videtur spectare, tamquam pusio, formā illa inevoluta, sterilis, subsuperficialis, densiuscule gregaria, *Phomam* minutam referens, quæ nomine *Melampsoræ punctiformis* Mont. exsistat in Desm. Pl. crypt. ex. n. 40 [in Herb. Brux.] et nomine *Phacidii Vaccinii* in Moug. Stirp. Vog. n. 1180, nam cum vera et evoluta *Dothiorella latitante* mixta observatur in Lib. Ard.

n. 47. A *Melampsoræ* typo, ad quem referebatur a cl. MONTAGNE, specimina a me visa longe abhorrent.

**RABENHORSTIA** Fr. — Syll. III, p. 243, X, p. 233.

1. *Rabenhorstia discoidea* Speg. F. Guar. nonn. n. 135, p. 48. 3229

*Hab.* ad ramos dejectos *Caricæ* sp. Paraguari Amer. austr.  
— Stromata erumpentia, atra, fibrilloso-tomentosa, orbiculata, 1-3 mm. diam., loculis monostichis parvis, 120  $\approx$  100, intus albis; sporulæ 22-28  $\approx$  11-19, hyalinæ, eguttatæ.

2. *Rabenhorstia deformis* (Fr.) Starb. Stud. p. 66, f. 48, *Sphæria* 3230  
Fr. — Syll. II, p. 385. — Stromata 0,7-1,5 mm. diam.; sporulæ 5-7  $\approx$  1. (In cortice *Abietis*).

**PLACOSPHERIA** Sacc. — Syll. III, p. 244, X, p. 234.

1. *Placosphæria Lysimachiæ* Bres. Hedw. 1894, p. 207. 3231

*Hab.* in foliis *Lysimachiæ Nummulariæ*, Königstein Saxoniæ (KRIEGER). — Stromata pulvinata, 0,5 mm. diam., plurilocularia; sporulæ 8-9  $\approx$  2; basidia 20-30  $\approx$  1.

2. *Placosphæria Teucril* Allesch. in Magn. Verz. Kissing. Pilze p. 8. 3232

*Hab.* in caulibus siccis *Teucril Chamædryos*, Kissingen.  
— Stromata elongata, intus et extus nigra, striatula; sporulæ 30-36  $\approx$  2, rectæ v. curvulæ, hyalinæ.

3. *Placosphæria sepium* Brun. Misc. myc. II, p. 36. 3233

*Hab.* in caulibus emortuis *Convolvuli sepium*, Saintes Galliæ. — Stromata lineari-oblonga, nigra, intus pallida; sporulæ 4  $\approx$  2,5, continuæ, hyalinæ. *Spermogonium Mazzantiæ sepium*.

4. *Placosphæria rhytismoides* Allesch. Verz. Süd-Bay. Pilze III, p. 27. 3234

*Hab.* ad folia viva v. languida *Valerianæ saxatilis* in Bavaria sup. — Stromata orbicularia, plana, atro-nitida; sporulæ 4-5  $\approx$  1,5-2, hyalinæ. *Spermogonium Mazzantiæ rhytismoidis*.

5. *Placosphæria Scopariæ* Brun. Sphaerops. nouv. in Bull. Soc. Bot. 3235  
Fr. 1893, t. 223.

*Hab.* in foliis *Ericæ scopariæ*, Fouras Galliæ. — Stromata oblonga, atro-nitida, interdum folium totum occupantia; sporulæ oblongæ, hyalinæ, 4-5  $\approx$  2,5.

6. *Placosphæria Arctostaphyli* Ell. et Ev. Proc. Acad. Phil. 1894, 3236  
p. 359.

*Hab.* in ramulis emortuis *Arctostaphyli nevadensis*, Washington Amer. bor. (SUKSDORF). — Stromata depresso-pulvinata, 0,5-0,7 mm. diam., ostiolis punctulata; sporulæ 5-6  $\approx$  2-2,5, hyalinæ, continuæ.



7. **Placosphæria Cynodontis** Brun. Champ. Charente-Infer. 1892, p. 35. 3237  
— Stromatibus sparsis v. confluentibus, suborbicularibus v. angulosis, nigris; sporulis oblongis, hyalinis, non guttulatis,  $6-7 \approx 3$ .  
*Hab.* ad folia Cynodontis Dactyli, Saintes Galliæ. — An *Phyllachoræ Cynodontis* spermogonium?

**FUSICOCOCCUM** Corda — Syll. III, p. 247, X, p. 239.

1. **Fusicoccum ilicinum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 359. 3238  
*Hab.* in ramis emortuis Ilicis opacæ, Nuttallburg Virgin. (NUTTALL). — Stromata corticola, 1-1,5 mm. diam., multilocularia, intus alba, poro unico pertusa; sporulæ  $15-22 \approx 2,5-3$ , nucleatæ, hyalinæ.  
2. **Fusicoccum Tiliæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 359. 3239  
*Hab.* in ramis emortuis Tiliæ americanæ, Delaware Amer. bor. (COMMONS). — Stromata innata, conoidea,  $250-350 \mu$ . diam., unilocularia, intus grisea; sporulæ  $7-10 \approx 2,5-3$ , hyalinæ, 2-nucleatæ.  
3. **Fusicoccum Ulmi** Oud. Contr. Myc. Pays-bas XIV, p. 41. 3240  
*Hab.* in ramis Ulmi campestris, Amsterdam. — Stromata tecta, subglobosa nigra, pauci-locularia; sporulæ fusoidæ  $40-50 \approx 7-9$ , hyalinæ, guttulatæ; basidia filiformia.  
4. **Fusicoccum album** (Pr.) Sacc. *Nemaspora* Preuss Hoyersw. n. 223. 241 p. 721.  
*Hab.* in ramis corticatis exsiccatis Coryli, Hoyerswerda. — Perithecia (stromata) deformia, papillata, immersa, intus candida; sporulæ ovoideæ guttulatæ, basidiis brevibus suffultæ.

**CYTOSPORELLA** Sacc. — Syll. III, p. 251, X, p. 242.

1. **Cytospora insitiva** Pegl. Contr. micol. Arell. p. 21. 3242  
*Hab.* in ramis siccis Robiniæ Pseudacaciæ, sociâ *Valsaria insitiva*, pr. Tuoro, Avellino (BERLESE). — Stromata globulosa, erumpentia, imperfecte plurilocularia, 1 mm. diam.; sporulæ  $3-3,5 \approx 2,5$  hyalinæ; basidia  $16-20 \approx 2,5$ .  
2. **Cytospora Mali** Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 1893, p. 223. 3243  
*Hab.* in ramis emortuis Piri Mali, sociâ *Cryptovalsa Nitschkei*, Saintes Galliæ. — Stromata seriata, cryptovalsacea; sporulæ  $5-6 \approx 2,5$ , ovoideo-oblongæ, rectæ, hyalinæ.  
3. **Cytospora pinicola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 359. 3214  
*Hab.* in cortice ramorum Abietis Engelmanni, Colorado

Amer. bor. — Stromata erumpentia, verruciformia, 1-1,5 mm. diam., perithecia peripherica; sporulæ  $3 \times 1,5$ , hyalinæ; basidia 15-20  $\approx$  2, ramosa.

**CYTOSPORÆ** Ehrenb. — Syll. III, p. 252, X, p. 243.

1. **Cytospora carnea** E. et E. New sp. North Am. Fung. in Proceed. 3245  
Acad. S. N. Philad. 1893, p. 160.

*Hab.* in cortice *Tiliæ glabræ* (*Bass wood*) Orono, Maine Amer. bor. (F. L. HARVEY). — Stromata convexa 3-4 mm. diam., atra, subtomentosa, intus griseo-nigricantia, multilocularia; cirri carnei; sporulæ 8-12  $\approx$  3, hyalinæ.

2. **Cytospora Halesiæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 361. 3246

*Hab.* in ramis *Halesiæ tetrapteræ*, Nuttallburg Virginie (NUTTALL). — Stromata convexo-conica, innata, 1 mm. diam., unilocularia, intus alba; sporulæ 5-7  $\approx$  1-1,5, hyalinæ, 2-guttulatæ; basidia 15  $\mu$ . long., simplicia.

3. **Cytospora annulata** E. et E. New sp. North Amer. Fung. in Proceed. 3247  
Acad. S. N. Philad. 1893, p. 160.

*Hab.* in ramis emortuis *Negundinis aceroidis*, South Dakota Amer. bor. (WILLIAMS). — Stromata minuta, multilocularia, 1 mm. diam., intus ardesiaca, ostiolo annulato; sporulæ 5-6  $\approx$  1-1,3, rectæ v. curvulæ, hyalinæ.

4. **Cytospora Negundinis** Ell. et Ev. Proc. Acad. Phil. 1894, p. 360. 3248

*Hab.* in ramis emortuis *Negundinis aceroidis*, Kansas Amer. bor. (BARTHOLOMEW). — Stromata corticola, conico-convexa, 1-1,3 mm. diam., ardesiaca, multilocularia; sporulæ allantoidæ, hyalinæ, 5,5-7  $\approx$  1-1,5; basidia ramosa 20  $\mu$ . long.

5. **Cytospora exasperans** Ell. et Ev. Proc. Acad. Phil. 1894, p. 360. 3249

*Hab.* in ramis emortuis *Aceris rubri*, Newfield N. J. Amer. bor. — Stromata corticola, orbicularia, 1 mm. diam., 4-6-locularia, poro unico; sporulæ oblongæ v. allantoidæ, 5-7  $\approx$  1,3 hyalinæ.

6. **Cytospora Terebinthi** Bres. F. Trid. II, p. 44, t. 149, f. 3. 3250

*Hab.* in ramis *Pistaciæ Terebinthi*, Doss Trento agri Tridentini. — Stromata erumpentia, conoideo-depressa, nigra, plurilocularia, 0,5-0,7 mm. diam.; cirrus sordide albus; sporulæ allantoidæ, 6-7  $\approx$  1-1,5; basidia ramosa.

7. **Cytospora Sophoræ** Bres. F. Trid. II, p. 44, t. 149, f. 4. 3251

*Hab.* in ramis *Sophoræ japonicæ* in ambulacris Trento. — Stromata pustulata, subcutanea, plurilocularia, 0,5-1 mm. diam.; sporulæ allantoidæ, 6-10  $\approx$  1,5, hyalinæ; basidia 25-35  $\approx$  0,5.

8. *Cytospora Pruni* Ell. et Dear. New spec. Canad. Fung. in Canad. 3252  
Rec. Sc. 1893, p. 269.

*Hab.* in ramis emortuis *Pruni virginianæ*, London Canada Amer. bor. — Stromata subcutanea, pustulata, 1-2-locularia, 0,7-1,5 mm. diam., intus albida; sporulæ 12-16  $\times$  2,5-3, fusoidæ, 2-4-guttatæ, basidiis obsoletis.

9. *Cytospora niphostoma* Sacc. *Cytospora Mespili* Bres. F. Trid. II, 3253  
p. 44, t. 150, f. 1 (1892) nec Oud.

*Hab.* in ramulis *Mespili germanicæ*, Tridenti. — Stromata plurilocularia, nigra, 1 mm. diam., disco plano niveo; cirrus albus; sporulæ allantoideæ, 5-8  $\times$  1-1,5; basidia ramosa, 2-2,5  $\mu$ . cr.

10. *Cytospora Mespili* Oud. Contr. Myc. Pays-bas XIV, p. 42 (1891). 3254

*Hab.* in ramis *Mespili germanicæ*, Wassenaar Nederlandiæ (DESTRÉE). — Stromata prominentia, plurilocularia; cirrus dilute croceus; sporulæ allantoideæ 7  $\times$  2.

11. *Cytospora Chionanthi* Ell. et Ev. Proc. Acad. Phil. 1894, p. 340. 3255

*Hab.* in ramis emortuis *Chionanthi virginicæ* Nuttallburg Virginiae occid., socio statu ascophoro (*Valsa Chionanthi*). — Stromata innata, ampullacea, 0,5-0,7 mm. diam., multilocularia, poro unico; sporulæ allantoideæ, 4-6  $\times$  1-1,3; basidia ramosa, 7-10  $\mu$ . long.

12. *Cytospora Tecomæ* Sacc. Bomm. Rouss. Contr. Myc. Belg. IV, 3256  
p. 283.

*Hab.* in ramulis *Tecomæ radicans*, Parc de Tervuerem Belgii. — Stromata subglobosa, brunneola, subtecta, dein erumpentia, sparsa v. 2-3-confluentia; sporulæ allantoideæ, 4-5  $\times$  1,5; basidia filiformia, fasciculata, 13-15  $\times$  1,5.

13. *Cytospora oleina* Berl. Micr. Tocs. in N. G. B. it. 1892, p. 161, 3257  
t. VIII, fig. 7.

*Hab.* in ramis siccis corticatis *Oleæ europææ*, Chianti et in Monte Pisano Etruriæ (BÈCCARI). — Stromata 0,5 mm. diam., te-cta, 3-4-locularia; sporulæ allantoideæ, 4-5  $\times$  1-1,5; basidia ramosa.

14. *Cytospora caryogena* Ell. et Ev. Proc. Acad. Phil. 1894, p. 359. 3258

*Hab.* in ramis emortuis *Caryæ albæ*, Virginia occid. — Stromata corticola, convexa, 1,5-2 mm. diam., ardesiaca, 4-6-locularia, intus flavido-grisea; sporulæ allantoideæ 3,5-4,5  $\times$  1, hyalinæ.

15. *Cytospora Celtidis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 360. 3259

*Hab.* in ramis emortuis *Celtidis*, Virginia occid. (NUTTALL). — Stromata valsoidea, applanata, 1,5-2 mm. diam., multilocularia, intus grisea; sporulæ allantoideæ 6-7  $\times$  1-1,5.

16. **Cytospora phlyctænoides** Ell. et Ev. Proc. Acad. Phil. 1891, 3260 p. 360.

*Hab.* in ramis emortuis Coryli Avellanæ, Newfield N. J. Amer. bor. — Stromata corticola, convexo-conica, 1-1,3 mm. diam., obsolete plurilocularia, intus pallida; sporulæ fusoideæ, hyalinæ, 2-nucleatæ, 6-9  $\approx$  2-2,5, rectæ; basidia 20  $\approx$  1,5, sursum curvata.

17. **Cytospora albo-farcta** (Schw.) Starb. Stud. p. 70, f. 31, *Sphæria* 3261 Schw. — Syll. II, p. 420. — Stroma 0,3-0,5 mm. lat.; sporulæ 5-7  $\approx$  1-1,5. (In ramulis Lauri Sassafras).
18. **Cytospora Pandani** Prill. et Delacr. Bull. Soc. Myc. 1893, p. 273, 3262 T. XIII, f. 8.

*Hab.* in pag. sup. foliorum Pandani utilis in calidariis Versailles Gallia. — Maculæ ochraceo-albidæ; stromata subsecta, 300  $\approx$  200, plurilocellata, ostiolo communi; sporulæ 5-6  $\approx$  3-3,5; basidia acicularia 8-10  $\mu$ . longa.

19. **Cytospora Frustum-Coni** (Schw.) Starb. Stud. p. 71, f. 49, *Sphæ-* 3263 *ria* Schw. — Syll. II, p. 382. — Stroma 0,7-1 mm. diam; sporulæ 5-6  $\approx$  1-1,5. (In radicibus arborum). *C. stenopora* Sacc. eadem est ac *Sphæria pyrenula* Fr., teste Starbäck l. c.

**LAMYELLA** Fr. Summa Veg. Scand. pag. 410 (Etym. a cl. botanico gallico ED. LAMY e Limoges). — Stroma lenticulari-conoideum; perithecia stipata, fere monosticha, prominentia, collis adnatis nec in ostiolum unicum coniunctis, columellam cylindraceo-angularem formantibus; sporulæ continuæ hyalinæ.

1. **Lamyella sphærocephala** (Schw.) Fr. l. c. Starb. Stud. p. 69, f. 46, 3264 *Sphæria* Schw. (Syll. II, p. 425 et III, p. 257). — Stroma 300-700  $\mu$ . diam.; sporulæ 5-7  $\approx$  1,5-2. (In ramis Hydrangæ).

**TORSELLIA** Fr. Summa Veg. Scand. p. 412 (Etym. a cl. GUST. TORSSELL (1811-1849) botanico sueco). — Stroma globoso-lageni forme; perithecia exacte peripherica, circa columellam sterilem ordinata, collis in ostiolum unicum conjunctis; sporulæ hyalinæ, continuæ.

1. **Torsellia Sacculus** (Schw.) Fr. l. c. Starb. Stud. p. 68, f. 47, *Sphæ-* 3265 *ria* Schw. — Syll. II, p. 379. — Stroma 1-2 mm. diam.; sporulæ curvulæ, 4-6  $\approx$  1,5. (In cortice Tecomæ radicans).

**CEUTHOSPORA** Grev. — Syll. III, p. 277, X. p. 250.

1. **Ceuthospora Fraxini** Togn. Seconda Contr. Mic. tosc. p. 10. 3266  
*Hab.* in ramis corticatis Fraxini Orni in Etruria. — Stroma

Sphærospideæ, Sphærioideæ, Phæosporæ, Sphæropsis. 511  
 conicum, pluriloculare; sporulæ 6-7  $\approx$  2, hyalinæ, nubilosæ; basidia 13  $\approx$  1.

*Sect. 2. Phæosporæ,*

**SPHÆROPSIS** Lév. em. Sacc. — Syll. III, p. 291 et X, p. 251.

1. **Sphæropsis Physocarpi** Ell. et Ev. Proc. Acad. Phil. 1894, p. 361. 3267

*Hab.* in ramis *Physocarpi opulifolii*, Nuttallburg Virginie (NUTTALL). — Perithecia 0,3 mm. diam., innata, ostiolo papillato erumpente, intus alba; sporulæ 12-15  $\times$  10, ellipsoideo-oblongæ. — *Sphæropsis rutæcola* Rab. F. Eur. n. 1258 (in caulibus *Foeniculi* in Sardinia) spectat ex parte ad *Diplodiam perpusillam* Desm. Cfr. Sacc. Fung. herb. Brux. n. 32.

2. **Sphæropsis Neillii** Ell. et Ev. Proc. Acad. Phil. 1894, p. 361. 3268

*Hab.* in ramis *Physocarpi opulifolii*, Canada Amer. bor. (DEARNESS). — Perithecia minuta, 200  $\mu$ . diam., semierumpentia, papillata; sporulæ pallide brunneæ, 12-16  $\approx$  4-5.

3. **Sphæropsis pomorum** (Schwz.) Cooke Grev. XX, p. 86, *Sphæria* 3269

*pomorum* Schwz. Amer. bor. 1683, Syll. II, p. 422. — Sporulæ 24  $\mu$ . longæ (In fructibus Mali). Teste Cooke l. c. forte non diversa a *Sphæropsi malorum* Peck.

4. **Sphæropsis fusca** (Pr.) Sacc. *Nemaspora fusca* Pr. Hoyersw. 4270  
n. 324, p. 720.

*Hab.* in ramis exsiccatis Rosæ, Hoyerswerda. — Perithecia globosa, membranacea, innata, ostiolo minuto erumpente, nucleo fusco; sporulæ oblongæ, magnæ, subfuscæ; basidia filiformia.

5. **Sphæropsis demersa** (Bon.) Sacc. Syll. III, p. 293. — var. *follicola* 3271  
Berl. et Roum. Rev. Myc. 1837, p. 163.

*Hab.* in foliis adhuc vivis *Cratægi Oxyacanthæ* pr. Coimbra Lusitaniæ. — Perithecia maculicola, nigra, globoso-conoidea, papillata, minuta; sporulæ 25-30  $\approx$  10-14; basidia 10  $\approx$  3-4, hyalina.

6. **Sphæropsis cratægicola** Cavara F. Longob. exs. n. 187 c. icone. 3272

*Hab.* in foliis vivis *Cratægi Oxyacanthæ* pr. Como Ital. bor. — Perithecia maculicola; sporulæ 20-22  $\approx$  8-10, ochraceæ. « Comparanda cum præcedente ».

7. **Sphæropsis Scopariæ** Oud. Contr. Myc. Pays-bas XIV, p. 42. 3273

*Hab.* in ramis *Sarothamni scoparii*, Loosduinen Neerlandiæ (DESTREE). — Perithecia innato-erumpentia, submembranacea; sporulæ 18-20  $\approx$  7, maturæ fuliginæ.

8. **Sphæropsis Asiminæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 361.

16. *Cytospora phlyctænoides* Ell. et Ev. Proc. Acad. Phil. 1891, 3260 p. 360.

*Hab.* in ramis emortuis Coryli Avellanæ, Newfield N. J. Amer. bor. — Stromata corticola, convexo-conica, 1-1,3 mm. diam., obsolete plurilocularia, intus pallida; sporulæ fusoideæ, hyalinæ, 2-nucleatæ, 6-9  $\approx$  2-2,5, rectæ; basidia 20  $\approx$  1,5, sursum curvata.

17. *Cytospora albo-farcta* (Schw.) Starb. Stud. p. 70, f. 31, *Sphæria* 3261 Schw. — Syll. II, p. 420. — Stroma 0,3-0,5 mm. lat.; sporulæ 5-7  $\approx$  1-1,5, (In ramulis Lauri Sassafras).  
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*Hab.* in pag. sup. foliorum Pandani utilis in calidariis Versailles Gallæ. — Maculæ ochraceo-albidæ; stromata subtecta, 300  $\approx$  200, plurilocellata, ostiolo communi; sporulæ 5-6  $\approx$  3-3,5; basidia acicularia 8-10  $\mu$ . longa.

19. *Cytospora Frustum-Coni* (Schw.) Starb. Stud. p. 71, f. 49, *Sphæ-* 3263 *ria* Schw. — Syll. II, p. 382. — Stroma 0,7-1 mm. diam; sporulæ 5-6  $\approx$  1-1,5. (In radicibus arborum). *C. stenopora* Sacc. eadem est ac *Sphæria pyrenula* Fr., teste Starbæk l. c.

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**TORSELLIA** Fr. Summa Veg. Scand. p. 412 (Etym. a cl. GUST. TORSSELL (1811-1849) botanico sueco). — Stroma globoso-lageni forme; perithecia exacte peripherica, circa columellam sterilem ordinata, collis in ostiolum unicum conjunctis; sporulæ hyalinæ, continuæ.

1. *Torsellia Sacculus* (Schw.) Fr. l. c. Starb. Stud. p. 68, f. 47, *Sphæ-* 3265 *ria* Schw. — Syll. II, p. 379. — Stroma 1-2 mm. diam.; sporulæ curvulæ, 4-6  $\approx$  1,5. (In cortice Tecomæ radicantis).

**CEUTHOSPORA** Grev. — Syll. III, p. 277, X. p. 230.

1. *Ceuthospora Fraxini* Togn. Seconda Contr. Mic. tosc. p. 10. 3266

*Hab.* in ramis corticatis Fraxini Orni in Etruria. — Stroma

Sect. 2. Phæosporæ.

**SPHÆROSPIS** Lév. em. Sacc. — Syll. III, p. 291 et X, p. 251.

1. **Sphærospis Physocarp** Ell. et Ev. Proc. Acad. Phil. 1894, p. 361. 3267

*Hab.* in ramis *Physocarp* opulifolii, Nuttallburg Virginie (NUTTALL). — Perithecia 0,3 mm. diam., innata, ostiolo papillato erumpente, intus alba; sporulæ 12-15  $\approx$  10, ellipsoideo-oblongæ. — *Sphærospis rutæcola* Rab. F. Eur. n. 1258 (in caulibus *Fœniculi* in Sardinia) spectat ex parte ad *Diplodiam perpusillam* Desm. Cfr. Sacc. Fung. herb. Brux. n. 32.

2. **Sphærospis Neillii** Ell. et Ev. Proc. Acad. Phil. 1894, p. 361. 3268

*Hab.* in ramis *Physocarp* opulifolii, Canada Amer. bor. (DEARNESS). — Perithecia minuta, 200  $\mu$ . diam., semierumpentia, papillata; sporulæ pallide brunneæ, 12-16  $\approx$  4-5.

3. **Sphærospis pomorum** (Schwz.) Cooke Grev. XX, p. 86, *Sphæria* 3269

*pomorum* Schwz. Amer. bor. 1683, Syll. II, p. 423. — Sporulæ 24  $\mu$ . longæ (In fructibus Mali). Teste Cooke l. c. forte non diversa a *Sphæropsi malorum* Peck.

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*Hab.* in ramis exsiccatis Rosæ, Hoyerswerda. — Perithecia globosa, membranacea, innata, ostiolo minuto erumpente, nucleo fusco; sporulæ oblongæ, magnæ, subfuscæ; basidia filiformia.

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*Hab.* in foliis adhuc vivis *Cratægi Oxyacanthæ* pr. Coimbra Lusitanie. — Perithecia maculicola, nigra, globoso-conoidea, papillata, minuta; sporulæ 25-30  $\approx$  10-14; basidia 10  $\approx$  3-4, hyalina.

6. **Sphærospis cratægicola** Cavara F. Longob. exs. n. 187 c. icone. 3272

*Hab.* in foliis vivis *Cratægi Oxyacanthæ* pr. Como Ital. bor. — Perithecia maculicola; sporulæ 20-22  $\approx$  8-10, ochraceæ. « Comparanda cum præcedente ».

7. **Sphærospis Scopariæ** Oud. Contr. Myc. Pays-bas XIV, p. 42. 3273

*Hab.* in ramis *Sarothamni scoparii*, Loosduinen Neerlandiæ (DESTREE). — Perithecia innato-erumpentia, submembranacea; sporulæ 18-20  $\approx$  7, maturæ fuliginæ.

8. **Sphærospis Asiminiæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 361.



- Hab.* in ramis emortuis *Asiminæ trilobæ*, Virginia occid. (NUTTALL). — *Perithecia* innata, pustulata, 0,3 mm. diam., crassiuscula; sporulæ oblongo-ellipsoideæ, brunneæ, 18-22 × 8-10.
9. **Sphærospis Æsculi** Fautr. et Roum. Rev. Myc. 1892, p. 113. 3274  
*Hab.* in cortice *Æsculi Hippocastani*, Noidan Côte-d'Or Galliæ. — *Perithecia* tecta, nigra, depressa, demum erumpentia, plurilocularia; sporulæ ex hyalino brunneæ, 23-32 × 16-20, continuæ, breve pedicellatæ. « Potius *Haplosporella* ».
10. **Sphærospis albescens** Ell. et Ev. Journ. Myc. VII, p. 132. 3275  
*Hab.* in ramis emortuis *Negundinis aceroidis*, Dakota Amer. bor. (WILLIAMS). — *Perithecia* innato-erumpentia, epidermide late dealbatâ tecta, globosa, 0,5 mm. diam.; sporulæ 15-20 × 8-10, brunneæ, continuæ.
11. **Sphærospis vitigena** E. et E. New sp. North Am. Fung. in Pro- 3276  
 ceed. Acad. S. N. Philad. 1893, p. 160.  
*Hab.* in sarmentis emortuis *Vitis cultæ*, Kansas Amer. bor. (BARTHOLOMEW). — *Perithecia* globosa, 0,3 mm. diam., corticola, papillata; sporulæ brunneæ, 18-20 × 8-10.
12. **Sphærospis Ampelos** (Schw.) Cooke Grev. XX, p. 86, *Sphæria* 3277  
*Ampelos* Schw. Amer. bor. 1637, Syll. II, pag. 420. — Sporulæ ellipsoideæ, continuæ, brunneæ, 10-12 × 6. (In sarmentis *Vitis*).
13. **Sphærospis rhoïna** (Schw.) Starb. Stud. p. 72, f. 51, *Sphæria* 3278  
 Schw. — Syll. II, p. 416. — *Perithecia* 300-400  $\mu$ . diam.; sporulæ 20-24 × 6-10, fuscæ. (In ramis *Rhois glabræ*).
14. **Sphærospis guttifera** Otth Bern. Mittheil. 1868, p. 60. 3279  
*Hab.* in ramis emortuis *Tiliæ grandifoliæ*, Bern Helvetiæ. — *Perithecia* insculpta, sparsa, subglobosa, fusco-grisea, papillata, nucleo cinereo; sporulæ 19-21 × 12-14, ellipsoideæ, obtusissimæ, grosse flavido-l-guttatæ, longe pedicellatæ.
15. **Sphærospis Hibisci** (Berk.) Cooke Grev. XX, pag. 106, *Sphæria* 3280  
 (*Obtectæ*), Berk. in Herb. n. 35. — *Peritheciis* gregariis, globoso-depressis, atris, papillatis, inter fibras corticis immersis, epidermide tectis, perforatis, 0,7-1 mm. diam.; sporulis ovoideis vel ellipticis, rotundatis, atro-brunneis, opacis, 12-14 × 9.  
*Hab.* in cortice *Hibisci syriaci* in Carolina inf. Amer. bor. 3281
16. **Sphærospis Viburni** Ell. et Dear. New Spec. Canad. Fung. in Can-  
 nad. Rec. Sc. 1893, p. 269.  
*Hab.* in foliis *Viburni Lentaginis*, Canada. — Maculæ brunneæ, marginatæ; *perithecia* amphigena, nigra, 125-200  $\mu$ . diam. sporulæ atro-brunneæ, 16-27 × 16-12.

17. **Sphærospis Samaræ** (Schw. p. p.) Starb. Stud. 75, f. 53, *Sphaeria* Schw. — Syll. II, p. 426. — Perithecia 100-150  $\mu$ . diam.; sporulæ 15-20  $\approx$  6-7. (In samaris Fraxini acuminatæ). 3282
18. **Sphærospis Ipomœa** Ell. et Ev. Proc. Acad. Phil. 1894, p. 362. 3283  
*Hab.* in pedunculis emortuis Ipomœæ panduratae, Nuttall-burg Virginie (NUTTALL). — Perithecia 250-300  $\mu$ . diam., epidermide atrata tecta; sporulæ brunneæ, 18-23  $\approx$  10-13, pedicellis subæquilongis.
19. **Sphærospis Coryli** Ell. et Ev. Proc. Acad. Phil. 1894, p. 361. 3284  
*Hab.* in ramis emortuis Coryli Avellanæ, Newfield N. J. Amer. bor. — Perithecia globosa, subcutanea, 0,5 mm. diam.; sporulæ 15-20  $\approx$  8-10.
20. **Sphærospis Castaneæ** Togn. Seconda Contr. Micol. tosc. p. 10. 3285  
*Hab.* in ramis Castaneæ vescæ in Etruria. — Perithecia tecta, 225  $\mu$ . diam., nigra; sporulæ 22-27  $\approx$  9-12, fuliginæe 1-nucleatæ; basidia subæquilonga.
21. **Sphærospis Mori** E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 1893, p. 457. 3286  
*Hab.* in ramis corticatis Mori, London Canada (DEARNESS). — Perithecia globosa, sparsa, 200-250  $\mu$ . diam., innata; sporulæ oblongæ, pallide brunneæ, 18-22  $\approx$  7-8.
22. **Sphærospis druparum** (Schwz.) Cooke Grev. XX, p. 86, *Sphaeria* 3287  
*druparum* Schwz. Amer. bor. 1682, Syll. II, p. 424. — Sporulæ continuæ, 25  $\mu$ . longæ. (In nucibus Juglandis). An satis diversa a *Sp. pericarpii* et *S. Caryæ*, observante Cooke.
23. **Sphærospis Taxi** (Schw.) Berk. Outl. p. 316, Ellis Pyren. Schw. 3288  
 pag. 9. *Sphaeria Taxi* Schw. in Herb. *Phoma* Sacc. Syll. III, p. 102 (?).  
*Hab.* in foliis emortuis Taxi Bethlehem Amer. bor. — Perithecia 200  $\mu$ . diam., papillata; sporulæ continuæ, brunneæ, 17-20  $\approx$  8-10.
24. **Sphærospis fuscescens** (Fr.) Starb. Stud. p. 72, f. 50, *Sphaeria* 3289  
 Fr. — Syll. II, p. 411. — Perithecia 200-300  $\mu$ . diam.; sporulæ 16-20  $\approx$  10-12 fuliginæe. (Ad cortices plantæ indefinitæ).
25. **Sphærospis numerosa** Cooke et Grev. XX, p. 65. — Gregaria; 3290  
 peritheciis semi-immersis vel subsuperficialibus, nigris, globosis, demum depressis; sporulis ellipticis, continuis, brunneis, 15  $\approx$  8.  
*Hab.* in corticibus emortuis, Dimboola, Victoria Australiæ (READER).

26. **Sphærospis Schweinitzii** E. et E. Pyren. Schwein. p. 9, *Sphæria* 3291  
*caulium* Schw. in Herb.

*Hab.* in caulibus herbarum emortuis, Bethlehem Amer. bor. —  
Perithecia rugulosa, 0,2–0,5 mm. diam., papillata; sporulæ 15–20  
× 8–10, continuæ, brunneæ, grosse l-nucleatæ.

27. **Sphærospis Scirpi** Boy. et Jacz. Mat. mycol. Montpell. p. 39. 3292

*Hab.* in Scirpo et foliis siccis Acori Calami pr. Montpel-  
lier. — Perithecia erumpentia, minuta; sporulæ exiguæ 4 × 3, ovoi-  
deæ, pallide brunneæ.

**NÆMOSPHÆRA** Sacc. — Syll. III, p. 198, X, p. 259. — Ad hoc ge-  
nus accedunt pycnidia *Meliolæ glangliferæ* (sporulis ochraceis,  
10–12 × 6–7) et *Meliolæ furcatæ* (sporulis 4–5  $\mu$ . long., ovoideis,  
flavo-fulgineis) a cl. GAILLARD descripta in Monogr. Mel. p. 125.

**CONIOTHYRIUM** Corda — Syll. III, p. 305, X, pag. 261. — Ad hoc  
genus accedit pycnidium *Meliolæ cladotrichæ* (sporulis 15–17 ×  
3–5, flavo-fulgineis) a cl. GAILLARD descriptum in Monogr. Meliol.  
p. 125.

1. **Coniothyrium Leguminum** (Rab.) Sacc. Fungi herb. Bruxell. n. 30, 3293  
*Sphærospis Leguminum* Rab. F. Eur. n. 1039 [in Herb. Brux.].  
— Peritheciis dense gregariis, erumpentibus, olivaceo-nigris, glo-  
bulosis, 90–100  $\mu$ . diam., poro minuto pertusis; sporulis ellipsoi-  
deo-oblongis, subinde curvulis, utrinque rotundatis, 4–5 × 2–2,5, oli-  
vaceo-fuscis; basidiis... non visis.

*Hab.* in leguminibus emortuis Saroth amni scoparii prope  
Münster Germaniæ (NITSCHKE).

2. **Coniothyrium Siliquastri** Brun. Champ. Charente-Infer. 1892, p. 35, 3294  
— Peritheciis sparsis v. confertis globulosis, atris, minutis, erum-  
pentibus; sporulis oblongis, brunneis 7 × 4,5, l-guttatis.

*Hab.* ad ramos emortuos Cercidis Siliquastri, Charente  
inf. Galliæ.

3. **Coniothyrium Cydoniæ** Brun. Champ. Charente-Infer. 1892, p. 35. 3295  
— Peritheciis sparsis, globulosis, atris, erumpentibus; sporulis glo-  
bulosis v. ellipticis, fuliginis, 5–6  $\mu$ . diam. v. 5–6 × 4.

*Hab.* ad ramulos emortuos Cydoniæ vulgaris, Charente inf.  
Galliæ.

4. **Coniothyrium vacinilicolum** (Schw.) Starb. Stud. p. 78, f. 54, *Sphæ-* 3296  
*ria* Schw. — Syll. II, p. 427. — Perithecia 250–300  $\mu$ . diam.;  
sporulæ 2–4 × 1–3. (In ramulis Vacciniorum).

5. *Coniothyrium Ligustri* Brun. Champ. Charente-Infer. 1892, p. 35. 3297  
— Peritheciis erumpentibus, sparsis, globulosis, atris; sporulis oblongis, continuis, fuligineis, 8-10  $\times$  4-5.

*Hab.* ad ramos emortuos *Ligustri ovalifolii*, Charente inf. Galliæ.

6. *Coniothyrium Lycii* Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 1893, p. 223.

*Hab.* in ramulis *Lycii barbari*, Saintes Galliæ. — Perithecia sparsa, nigra, suberumpentia, globulosa; sporulæ globosæ, 4,5-6  $\mu$ . diam., fuliginææ, 1-guttatæ.

7. *Coniothyrium phomoides* (Crouan) Sacc. Fungi herb. Brux. n. 31, 3299  
*Sphæria phomoides* Crouan in Roum. F. Gall. ex. n. 88, ex parte [in Herb. Brux.]. — Peritheciis laxè gregariis, innato-erumpentibus, nigris, globoso-depressis, 200  $\mu$ . diam., pertusis; sporulis ellipsoideo-globosis, melleis dein fuligineis, 5-6  $\times$  4.

*Hab.* in caule emortuo *Vincæ majoris*, Toulouse Galliæ.

8. *Coniothyrium infuscans* Ell. et Ev. Proc. Acad. Phil. 1894, p. 362. 3300

*Hab.* in caulibus emortuis *Valerianæ edulis*, Colorado Amer. bor. (CRANDALL). — Perithecia ovato-globosa, nigra, 170-200  $\mu$ . diam.; sporulæ brunneæ, globoso-ellipsoideæ, 6-8  $\mu$ . long.

9. *Coniothyrium palmicolum* (Fr. p. p.) Starb. Stud. pag. 78, f. 55, 3301

*Sphæria* Fr. — Syll. II, p. 410. — Perithecia 200-300  $\mu$ . diam.; sporulæ 8-12  $\approx$  4, olivaceæ. (In foliis *Palmarum*, Nicobar). *C. Fuckeli* Sacc. idem est ac *Sphæria pætula* Fr., teste Starb. l. c.

10. *Coniothyrium fallax* Rolland Rev. Myc. 1892, p. 167, t. CXXVIII, 3302  
fig. 16-19. — Peritheciis seriatis, sphaericis, 125  $\mu$ . diam., atro-nitidis, nucleo fuliginoso, facile evacuatis et tunc succineis, fragillissimis, umbilicatis; sporulis fuligineo-luteis, longitud. subplicatis, oblongo-ellipsoideis, rectis, 6  $\approx$  2.

*Hab.* ad folia sicca *Caricis ripariæ* in Gallia.

11. *Coniothyrium muscicolum* Ell. Descr. New spec. Fung. in Journ. 3303  
of Mycol. 1893, p. 276.

*Hab.* in capsulis *Polytrichi*, Carlin Virg. Amer. bor. — Perithecia lenticularia, nigra, 75-90  $\mu$ . diam., tecta; sporulæ globosæ, flavo-brunneæ, 8-10  $\mu$ . diam.

# **HARKNESSIA** Cooke — Syll. III, p. 320, X, p. 269.

1. *Harknessia thujana* E. et E. in Proceed. Acad. N. Sc. Philad. 1893, 3304  
p. 459.

*Hab.* in cortice interiore dejecto *Cupressi thyoidis*, New-

field N. J. Amer. bor. — Acervuli (perithecia?) cortice innati, elipsoidei, nigri 0,5 mm. lat., poro minuto aperti; sporulæ acute elipsoideæ, 12-16  $\approx$  9-11, pedicellis persistentibus, 16-20  $\mu$ . longis. « An *Melanconii* species? ».

**CHÆTOMELLA** Fuck. — Syll. III, p. 321, X, p. 271.

1. *Chætomella Brassicæ* (Schw.) Starb. Stud. p. 79, f. 58, *Sphaeria* 3305  
Schw. — Syll. II, p. 432. — Perithecia 300  $\mu$ . diam.; sporulæ 5-10  $\mu$ . diam., olivaceo-fuscæ, angulosæ. (In caulibus Brassicæ).

**CAPNODIASTRUM** Speg. — Syll. X, p. 272.

1. *Capnodiastrum Cestri* Pat. Bull. Soc. Myc. 1893, p. 158. 3303  
*Hab.* in pag. inf. foliorum *Cestri*, Guamanpata Aequatoriae (LAGERHEIM). — Mycelium maculiforme, atrum, 0,5-1 cm. diam.; perithecia dimidiata, 80-100  $\mu$ . diam., orbicularia, atra; sporulæ 20  $\approx$  6-8, brunneæ, leves, inferne pallidiores, breve stipitatae.

**CYTOPLEA** Bizz. et Sacc. — Syll. III, p. 325.

1. *Cytoplea subconcava* (Schw.) Starb. Stud. p. 82, f. 60, *Sphaeria* 3307  
Schw. — Syll. II, p. 370. — Stroma 3 mm. long.; sporulæ 15-19  $\approx$  5-7, fusciculæ. — (In ramis *Viburni dentati*). — *Sphaeropsis propullulans* Peck — Syll. III, p. 294 — ad *Cytopleam* spectat, teste Starb. l. c.

**HAPLOSPORELLA** Speg. — Syll. III, p. 323, X, p. 273.

1. *Haplosporella Araliæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 362. 3308  
*Hab.* in ramis emortuis *Araliæ spinosæ*, Nuttallburg Virg. occid. (NUTTALL). — Stromata seriato-connata, 4-20 mm. long.; perithecia ovato-globosa, innata, 0,3 mm. diam, 3-6 in quoque stromate; sporulæ brunneæ, 20-25  $\approx$  10-12.
2. *Haplosporella alpina* Ell. et Ev. Proc. Acad. Phil. 1894, p. 362. 3309  
*Hab.* in ramis emortuis *Sambuci melanocarpæ*, Colorado Amer. bor. (BAKER). — Stromata convexo-hemisphærica, erumpentia, nigra, 300-400  $\mu$ . diam.; perithecia immersa, 100-150  $\mu$ . diam., papillata; sporulæ subglobosæ, 5  $\mu$ . diam. v. 6-7  $\approx$  5, brunneæ.
3. *Haplosporella Symphoricarpi* Peck 47 Rep. p. 22. 3310  
*Hab.* ad ramos emortuos *Symphoricarpi racemosi*, Al-cove Albany County Amer. bor. (SHEAR). — Stromata 0,5-0,6 mm. diam., sæpe confluentia, erumpentia, nigra, ostiolis punctata; sporulæ coloratæ, continuæ, 15-20  $\approx$  7.

4. **Haplosporella Bignoniæ** (Schw.) Starb. Stud. p. 79, f. 56, *Sphæria* 3311  
Schw. — Syll. II, p. 644. — Perithecia 200–300  $\mu$ . diam. acervata;  
sporulæ 20–25  $\times$  10–12 fuscæ. (In ramis Bignoniæ [Tecomæ]  
radicantis).
5. **Haplosporella druparum** (Schw.) Starb. Stud. p. 80, f. 57, *Sphæ-* 3312  
*ria* Schw. — Syll. II, p. 424. — Perithecia 0,5–1 mm. diam.;  
sporulæ 15–30  $\times$  10–12, fuliginææ. (In pericarpio Juglandis ni-  
græ). Conferatur *Sphæroopsis druparum* (Schw.) Cooke, supra.
6. **Haplosporella Celtidis** Ell. et Ev. Proc. Acad. Phil. 1894, p. 362. 3313  
*Hab.* in ramis emortuis Celtidis, Virginia occid. Amer. bor.  
(NUTTALL). — Perithecia 3–10 valsoideo-connata, papillata, 200  $\mu$ .  
diam., intus alba; sporulæ brunneæ, continuæ, 18–22  $\times$  10–12.
7. **Haplosporella Avellanæ** Oud. Contrib. Fl. Myc. Pays-Bas XV, 3314  
p. 13. Ab *H. obscura* Passer. — Syll. X, p. 274. — differt spo-  
rulis extremitatibus rotundatis, brunneis et 5–6  $\times$  2–3.  
*Hab.* ad ramulos Coryli Avellanæ in Nederlandia.
8. **Haplosporella Briosiana** Tognini Contr. Mic. Tosc. p. 11. 3315  
*Hab.* in ramis emortuis Salicis in Etruria. — Stromata sub-  
cutanea, erumpentia, atra, papillosa; perithecia copiosa, 100  $\mu$ .  
diam., nucleo fuligineo; sporulæ ellipsoideæ 4,5  $\times$  2,5, læte oliva-  
cæ; basidia interdum ramosa, usque 26  $\times$  2,5.

**NOTHOPATELLA** Sacc. — Syll. X, p. 441 (nomen) — (Etym. *nothos*  
spurius et *Patella*), *Pseudopatella* Speg. Fl. Guar. nonn. pag. 48  
(1891), nec Sacc. (1884). — Stromata innato-erumpentia, discoideo-  
subturbinata, cortice crustaceo frustulatum secedente tecta, intus  
dense monostiche loculigera; sporulæ ovoideæ, continuæ sæpeque  
1-septatæ, fusciculæ, basidiis majusculis suffultæ. — Genus *Ha-*  
*plosporellæ* peraffine sed stromatibus lecanidiiformibus insigne.

1. **Nothopatella Lecanidium** (Speg.) Sacc. *Pseudopatella* Speg. l. c. 3316  
p. 49, n. 137.

*Hab.* ad truncos vivos v. languidos Citri Aurantii in hortis  
Guarapi Amer. austr. — Stromata 1 mm. diam.; loculi seu peri-  
thecia 200  $\times$  50–100; sporulæ 18–22  $\times$  12–14, ex hyalino fuscæ; ba-  
sidia 15–20  $\times$  5.

**DISCOMYCOPSIS** Jul. Müll. in Bot. Centralbl. 1894, vol. 57, p. 347  
(Etym. *discomyces* et *opsis* aspectus). — Habitus *Rhytismatis acc-*  
*rini*; sporulæ globosæ v. ovoideæ, continuæ, dein brunneæ.

1. **Discomycopsis rhytismoides** Jul. Müll. l. c. — Stromatibus epiphyll- 3317

lis, raro etiam petiolicolis et hypophyllis, 2 cm. v. amplius long., atris, intus subreticulatis; sporulis 27  $\mu$ . diam. v. 19-35 = 17-25, ex hyalino brunneis.

*Hab.* in foliis Aceris Pseudoplatani in Germania.

### Sect. 3. Phæodidymæ.

**DIPLODIA** Fr. — Syll. III, p. 329, X, p. 275.

1. *Diplodia magnolicola* Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 3318 1893, p. 224.

*Hab.* in ramis emortuis Magnoliæ grandifloræ, Saintes Galliæ. — Perithecia globuloso-papillata, erumpentia, nigra; sporulæ 22-25  $\times$  10-11, demum 1-septatæ, fuliginææ, non constrictæ.

2. *Diplodia Camelliæ* Berl. Micr. Tosc. in N. G. Bot. it. 1892, p. 163 3319

*Hab.* in foliis Camelliæ japonicæ in horto botanico, Pisa (BECCARI). — Perithecia minuta, globoso-conoidea; sporulæ 8-10  $\times$  4, olivaceæ, 1-septatæ.

3. *Diplodia minutissima* Oth Bern. Mittheil 1868, p. 59. 3320

*Hab.* in ramis Aceris campestre pr. Bern. Helvetiæ. — Perithecia minutissima, innato-erumpentia, vix papillata, basi applanata; sporulæ 20  $\times$  10.

4. *Diplodia Gayii* Boy. et Jacz. Mat. mycol. Montpell. p. 42. 3321

*Hab.* in caule Rutæ angustifoliæ pr. Montpellier. — Sporulæ 1-septatæ, brunneæ, 9  $\times$  4-5.

5. *Diplodia Ampelopsidis* Allesch. Verz. Süd-Bay. Pilze III, p. 37. 3322

*Hab.* in sarmentis putrescentibus Ampelopsidis hederae pr. München Baviaræ. — Perithecia innato-erumpentia, depresso-globosa, papillata, atra; sporulæ 20-24  $\times$  7-9, atrofuliginææ, 1-septatæ, vix constrictæ.

6. *Diplodia Cæsii* Boy. et Jacz. Mat. mycol. Montpell. p. 49. 3323

*Hab.* in sarmentis emortuis Rubi cæsii pr. Montpellier. — Sporulæ 1-septatæ, ovoideæ, 8-9  $\times$  6-7.

7. *Diplodia Ruborum* (Schw.) *Sphæria Ruborum* Schw. Amer. bor. 3324

1677 — Syll. II, pag. 426, Cooke Grev. XX, p. 86. — Sporulæ 1-septatæ, constrictæ, brunneæ, 20  $\times$  8. (In sarmentis Rubi strigosi etc.) An diversa a *Dipl. Rubi*?

8. *Diplodia Roumegueri* Sacc. — Syll. III, p. 340 — var. *santonensis* 3325

Brun. Champ. Charente-Infer. 1892, p. 35. — Peritheciis subglobulosis, sparsis v. confertis; sporulis oblongis, primitus hyalinis, gra-



nulosus, dein 1-guttatus, denique fuliginis, 1-septatis, septo non constrictis, 30  $\approx$  15-18.

*Hab.* ad ramulos emortuos Pruni Laurocerasi, Saintes Galliæ.

9. **Diplodia Psoraleæ** Boy. et Jacz. Mat. mycol. Montpell. p. 42. 3320

*Hab.* in Psoralea bituminosa pr. Montpellier. — Perithecia subcutanea; sporulæ bicellulares, 10  $\approx$  6.

10. **Diplodia Caraganæ** Schnabl in Berichte bay. bot. Gesell. 1892, II, pag. 68. 3327

*Hab.* in ramis corticatis Caraganæ arborescentis pr. München Baviaræ, socia *Cucurbitaria Caraganæ*. — Perithecia seriata, erumpentia, nigra, minute papillata; sporulæ oblongæ, 22  $\approx$  9, didymæ, fuscae.

11. **Diplodia Coluteæ** Schnabl in Berichte bay. bot. Gesell. 1892, II, p. 68. 3328

*Hab.* in ramulis emortuis Coluteæ arborescentis pr. München Baviaræ, socia *Cucurbitaria Coluteæ*. — Perithecia globoso-papillata, erumpentia, nigra; sporulæ 20  $\approx$  9, uniseptatæ, leniter constrictæ, fuscae.

12. **Diplodia Sarothamni** Oud. Contrib. Fl. Myc. Pays-Bas XV, p. 13. 3329

— Peritheciis globulosis, atris, subcarbonaceis, cæspitosis, sæpe seriatis, erumpentibus, ostiolo minuto; sporulis ellipticis v. obovatis, interdum inæquilateralibus, extremitatibus rotundatis, diutius continuis, demum 1-septatis, pallide olivaceo-fuliginis, 18-17  $\approx$  8-10.

*Hab.* ad ramulos Sarothamni scoparii Loosduinen Neerlandiæ (C. E. DESTREE). Habitus *Sphaeropsidis Saccardianæ*.

13. **Diplodia Boyeri** Sacc., *Diplodia Spartii* Boy. et Jacz. Mat. mycol. Montpell. p. 42, nec Cast. 3330

*Hab.* in ramis Genistæ Scorpii pr. Montpellier. — Perithecia tecta, globulosa, exigua; sporulæ brunneæ 1-septatæ 10  $\approx$  3-5.

14. **Diplodia Spartii** Cast. in sched. (in Herb. Brux.), Sacc. Fungi herb. Bruxell n. 33 — Peritheciis epidermide velatis dein erumpentibus, globulosis, papillulatis, nigris, gregariis v. seriatis; sporulis obovatis, constricto-1-septatis, melleis dein atro-fuliginis, 22-24  $\approx$  8-9; basidiis teretiusculis, sporula brevioribus. 3331

*Hab.* in ramis emortuis Spartii juncei, Montaud-les-Miramas Galliæ, socia *Phoma Spartii* Sacc.

15. **Diplodia Cercidis** Ell. et Ev. Proc. Acad. Phil. 1894, p. 363. 3332

*Hab.* in ramis emortuis Cercidis canadensis, Nuttallburg Virg. occid. Amer. bor. (NUTTALL). — Perithecia globosa, 0,3-0,5 mm. diam.; sporulæ 20-23  $\approx$  10-15, uniseptatæ, basidiis obtusis.

16. **Diplodia conspersa** (Schw.) Cooke Grev. XX, p. 86, *Sphaeria* 333  
*conspersa* Schw. Amer. bor. 1863 — Syll. II, p. 418. — Sporulæ ellipticæ, uniseptatæ brunneæ,  $14 \approx 6$  (In trunco Robiniæ viscosæ).
17. **Diplodia viscicola** P. Henn. F. Æthiop. I, p. 122. 3334  
*Hab.* in foliis ramulisque Visci tuberculati pr. Gheleb Erythrææ. — Perithecia nigra, punctiformia, prominula; sporulæ  $16-25 \approx 7-13$ , atro-fuscæ, medio obsolete septatæ, ellipsoideæ v. piriformes.
18. **Diplodia infuscans** Ell. et Ev. Proc. Acad. Phil. 1894, p. 363. 3335  
*Hab.* in cortice ramorum Fraxini americanæ, Nuttallburg Virg. occid. Amer. bor. (NUTTALL). — Perithecia ovato-globosa,  $110-150 \mu$ . diam., matricem nigrificantia, obscure papillata; sporulæ  $12-15 \approx 8-10$ , parce constrictæ.
19. **Diplodia Lingustri** West. — Syll. III, p. 347 — form. **Ovalifolii** 3336  
Brun. Champ. Charente-Infer. 1892, p. 35. — Peritheciis sparsis v. confertis, subglobulosis v. subconicis, atris, obtectis, dein erumpentibus; sporulis ovoideis v. oblongo-ellipticis,  $22 \approx 15$ , fuligineis, 1-septatis, septo non constrictis.  
*Hab.* ad ramulos emortuos Ligustri ovalifolii, Saintes Galliæ.
20. **Diplodia Oleæ** Pegl. Contr. micol. Avell. p. 22. 3337  
*Hab.* in ramis siccis Oleæ europææ, Avellino. — Perithecia sparsa, globosa, tecta, dein erumpentia,  $0,3-0,4$  mm. diam.; sporulæ  $18-20 \approx 10-12$ , fuliginææ, 1-septato-constrictulæ.
21. **Diplodia Buddlejæ** Pat. Bull. Soc. Myc. 1893, p. 159. 3338  
*Hab.* in foliis vivis Buddlejæ, Corazon Æquatoriæ (LAGERHEIM). — Perithecia epiphylla, tecta, atra, nitida,  $0,3$  mm. lat.; sporulæ 1-septatæ, non constrictæ, brunneæ,  $16 \approx 7$ ; maculæ nullæ.
22. **Diplodia Vaccinii** Berl. et Roum. Rev. Myc. 1887, p. 163. — *bi* 3339  
*Hab.* in foliis emortuis Vaccinii Vitis-idææ in Lusitania et Gallia. — Perithecia sparsa, hypophylla, tecta, ostiolo prominulo; sporulæ 1-septato-constrictæ,  $12-18 \approx 7-9$ , ovoideæ, fuliginææ.
23. **Diplodia Marsdeniæ** C. et Masee Grev. XXI, p. 75. 3340  
*Hab.* in folliculis Marsdeniæ, socia *Phoma folliculorum*, Queensland Australiæ (BAILEY). — Perithecia obturbinata, nigra, erumpentia; sporulæ  $22 \approx 10$ , tandem 1-septatæ, haud constrictæ, atro-brunneæ.
24. **Diplodia Sipolisii** P. Henn. Fung. goyaz. p. 114. 3341  
*Hab.* in foliis vivis Sipolisii lanuginosæ, Minas Geraes

- Brasiliæ. — *Perithecia epiphylla*, sparsa v. gregaria, globoso-depressa, atra, 0,5-1 mm. diam.; sporulæ 20-27  $\approx$  13-16, brunneo-fuscæ, 1-septatæ, non constrictæ.
25. *Diplodia caryogena* Ell. et Ev. Proc. Acad. Phil. 1894, p. 363. 3342  
*Hab.* in ramis emortuis *Caryæ albæ*, Canada Amer. bor. — *Perithecia nigra*, 0,5 mm. diam., epidermide pustulata tecta; sporulæ 1-septatæ, vix constrictæ, brunneæ, 15-20  $\approx$  8-10.
26. *Diplodia juglandina* Otth Bern. Mittheil. 1868, p. 59. 3343  
*Hab.* in ramis siccis *Juglandis regiæ*, Steffisburg Helvetiæ. — *Perithecia globoso-depressa*, crassa, fusca, sparsa; sporulæ 20-22  $\approx$  10, fusco-brunneæ, 1-septatæ, stipitellatæ.
27. *Diplodia nucis* Brun. Sphærops. nouv. in Bull. Soc. Bot. 1893, p. 224. 3344  
*Hab.* in lobis seminum *Juglandis regiæ*, Saintes Galliæ. — *Perithecia subglobosa*, minuta, nigra, tecta; sporulæ 18  $\approx$  10, dilute fuliginæ, tandem 1-septatæ, non constrictæ.
28. *Diplodia microspora* Otth Bern. Mittheil. 1868, p. 59. 3345  
*Hab.* in ramulis *Platani* dejectis pr. Bern Helvetiæ. — *Perithecia fusco-brunnea*, carnosogrumosa, insculpta; sporulæ 10  $\approx$  5, fuliginæ, 1-septatæ, obtusæ, breve pedicellatæ.
29. *Diplodia Thujæ* Otth Bern. Mittheil. 1868, p. 59. 3346  
*Hab.* in ramis siccis *Thujæ occidentalis* pr. Bern Helvetiæ. — *Perithecia innata*, globulosa, papillata, media magnitudine; nucleus fusco-griseus; sporulæ 20  $\approx$  9, fusco-brunneæ, 1-septatæ, stipitæ.
30. *Diplodia kansensis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 363. 3347  
*Hab.* in cortice atrato *Juniperi virginianæ*, Kansas Amer. bor. (BARTHOLOMEW). — *Perithecia subglobosa erumpenti-superficialia* 0,3-0,5 mm. diam.; sporulæ constricto-1-septatæ, brunneæ, 20-27  $\approx$  12-15.

**CHÆTODIPLODIA** Sacc. — Syll. III, p. 374, X, p. 292.

1. *Chætodiplotia diversispora* Em. March. Bull. Soc. belg. micr. 1894, p. 267, fig. 4. 3348  
*Hab.* in fructibus *Cocos nuciferæ*, quos cirris nigris obducit, Congo inf. (E. LAURENT). — *Perithecia setosa*, 0,5 mm. diam.; sporulæ ellipsoideæ, 25-33  $\approx$  13-15, fuscæ, 1-septatæ.

**DIPLODIELLA** Karst. — Syll. III, p. 375, X, p. 293.

1. *Diplodiella viminis* Fautr. Rev. mycol. 1894, p. 160. 3349

*Hab.* in viminibus salicinis cistæ vetustæ, Côte-d'Or Galliæ.

— *Perithecia minuta superficialia sæpe seriata; sporulæ fusoidæ, 8-11 = 2-3, uniseptatæ, coacervatæ flavæ, 2-guttatæ.*

2. **Diplodiella Caricæ** Togn. Seconda Contr. Micol. tosc. p. 11. 3350

*Hab.* in trunco Ficus Caricæ in Etruria. — *Perithecia superficialia 90-160 µ. diam., globoso-depressa; sporulæ 11 = 7, dilute fuliginæ, constricto-1-septatæ.*

**BOTRYODIPLODIA** Sacc. — Syll. III, p. 377, X, p. 294.

1. **Botryodiplodia acerina** Ell. et Ev. Proc. Acad. Phil. 1894, p. 363. 3351

*Hab.* in ramis emortuis Aceris pensylvanici, Nuttallburg Virginæ occid. (NUTTALL). — *Perithecia botryoideo-congesta, erumpentia, 0,5 mm. diam. intus albida, late papillata; sporulæ 20-25 = 12-15, stipitatæ, 1-septatæ, brunneæ.* — *Botr. acerina* Ell. et Ev. Proc. Acad. Phil. 1893, p. 161, in Acere rubro in Canada, videtur eadem species.

2. **Botryodiplodia Theobromæ** Pat. Bull. Soc. Myc. 1892, p. 136. 3352

*Hab.* in fructu Theobromæ, quem atro-incrustat, S. Domingo de Colorado Æquatoriæ (LAGERHEIM). — *Perithecia atra, 200 µ. diam., plus minus villosa, stromate villosa, atro juncta; sporulæ 25-35 = 12-15, uniseptatæ, demum brunneæ; basidia hyalina 50 µ. longa.* «Ad *Chælodiplodiam* vergit».

3. **Botryodiplodia Chamædoreæ** P. Henn. Hedw. 1895 (p. 66). 3353

*Hab.* in truncis Chamædoreæ desmoncoidis, in tepidario Palmarum in horto Berolinensi. — *Perithecia carbonacea, atra; sporulæ 23-29 = 10-12, 1-septatæ, atro-fusæ.*

*Sect. 4. Hyalodidymæ.*

**ASCOCHYTA** Lib. em. Sacc. — Syll. III, p. 384, X, p. 295.

1. **Ascochyta achlycola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 364. 3354

*Hab.* in foliis Achlyos triphyllæ, Washington Amer. bor. (Prof. PIPER). — *Maculæ albæ, marginatæ; perithecia epiphylla, 75 µ. diam.; sporulæ 5-8 = 2,5-3, hyalinæ, 2-nucleatæ, dein 1-septatæ.*

2. **Ascochyta alpina** Rostr. Bidr. Ascom. Dovre p. 11. 3355

*Hab.* in foliis Cerastii alpini, Dovre Norvegiæ. — *Perithecia amphigena, lenticularia; sporulæ 6-8 = 1,5-2, hyalinæ, 1-septatæ.*

3. **Ascochyta Evonymi** Oud. Contrib. Fl. Myc. Pays-Bas XV, p. 14. 3356  
 — Peritheciis hinc inde gregariis, minutis,  $\frac{1}{2}$ – $\frac{1}{4}$  mm. lat., erumpentibus, subglobosis, membranaceis, brunneis; sporulis nunc cylindricis, rectis v. subcurvulis, 11–16  $\approx$  2–3, nunc ellipticis v. obovatis, sæpe inæquilateralibus 9  $\approx$  4,5, hyalinis, 1-septatis.

*Hab.* ad ramulos *Evonymi europæi*, Schœveningue Nederlandiæ (DESTRÉE).

4. **Ascochyta pirina** Pegl. Contr. micol. Avell. p. 23. 3357  
*Hab.* in fructibus folisque *Piri communis*, Avellino. — Perithecia nigra, minuta, 0,3 mm. diam.; sporulæ 12–14  $\approx$  4–5, hyalinæ, 1-septatæ, leniter constrictæ.

5. **Ascochyta Akebiæ** Bres. in Sydow Mycoth. march. Cént. XLI, 3358 1894, n. 4074. — Maculis amphigenis subgloboso-angulatis, fuscis arescendo dealbatis; zona nigra cinctis; peritheciis epiphyllis, punctiformibus; sporulis, oblongis hyalinis, constrictis, 1-septatis, 2–4-guttulatis, 9–12  $\approx$  3–4.

*Hab.* ad folia *Akebiæ* *quinatæ* cultæ in Germania.

6. **Ascochyta Capparidis** (Cast.) Sacc. Fungi herb. Brux. n. 34, *Pe- 3359*  
*risporium Capparidis* Cast. (in Herb. Brux.). — Peritheciis minutis, gregariis, epidermide dealbata tectis, globosis, umbrino-nigris, 150  $\mu$ . diam., poro pertusis, hyphulis basi cinctis; sporulis oblongis, obtusulis, subcurvis, 1-septatis, vix constrictis, 6–8  $\approx$  3, dilute ochraceo-umbrinis.

*Hab.* in caulibus *Capparidis* emortuis, Aix Galliæ. — Ob sporum colorem ad *Diplodiam* vergit, sed perithecia *Ascoschyte*.

7. **Ascochyta Pisi** Lib., Sacc. Fungi herb. Brux. n. 35, Syll. III, p. 397, 3360  
*Phyllosticta Robergei* Desm. Pl. crypt. exs. n. 685 (in Herb. Brux.).

*Hab.* ad folia, stipulas, legumina *Pisi* sativi in Gallia. — Sporulæ initio continuæ sed tandem distincte 1-septatæ, 14–15  $\approx$  4–4,5, hyalinæ. Verisimiliter cl. Desmazières statum immaturum præ oculis tantum habuit.

8. **Ascochyta Podagrariæ** Bres. Hedw. 1894, p. 207. 3361  
*Hab.* in foliis *Ægopodii Podagrariæ* pr. Königstein Saxonie (KRIEGER). — Perithecia 100–150  $\mu$ . diam. epiphylla; sporulæ 1-septatæ, hyalinæ, 15–18  $\approx$  5–6.

9. **Ascochyta Chærophylli** Bres. Hedw. 1894, p. 207. 3362  
*Hab.* in foliis *Chærophylli* hirsuti pr. Königstein Saxonie (KRIEGER). — Perithecia epiphylla 60–75  $\mu$ . diam.; sporulæ 1-septatæ, hyalinæ, 4-guttulatæ, 10–12  $\approx$  4. — *Marsoniæ Podagrariæ* sat affinis.

10. **Ascochyta Baccharidis** Pat. Bull. Soc. myc. 1892, p. 135. 3363  
*Hab.* in pagina superiore foliorum *Baccharidis* pr. Quito Æquatorie (LAGERHEIM). — Perithecia innato-erumpentia, pertusa, maculas bullaceas atras efficientia; sporulæ 30-40 × 8-10, hyalinæ, 1-septatæ, constrictæ.
11. **Ascochyta Millefolii** Oud. Contr. Myc. Pays-bas XIV, p. 44. 3364  
*Hab.* in caulibus *Achilleæ Millefolii*, Schereningue Nederlandiæ (DESTREE). — Perithecia 150-160  $\mu$ . diam., brunnea, pertusa; sporulæ 7-8 × 2-2,5, glaucæ, 1-septatæ.
12. **Ascochyta Atropæ** Bres. in Hedw. 1893, p. 32. — Maculis amphigenis, pallidis, fusco-marginatis; peritheciis lentiformibus, epiphyllis, subspuriis, late pertusis, 70-80  $\mu$ . diam.; sporulis hyalinis, ex elongato obovatis, subcylindraceis, 1-septatis, ad septum demum subconstrictis, 8-12 × 4. 3365  
*Hab.* in foliis *Atropæ Belladonnæ*, Nossen Saxonie (KRIEGER). — Sporulæ tantum bene evolutæ 1-septatæ evadunt; quare in prima evolutione fungus hic pro *Phyllostictæ* sp. facile haberi potest.
13. **Ascochyta Syringæ** Bres. Hedw. 1894, p. 207. 3366  
*Hab.* in foliis *Syringæ vulgaris* pr. Schandau Saxonie (KRIEGER). — Perithecia lentiformia, 120-130  $\mu$ . diam., epiphylla; sporulæ 1-septatæ, hyalinæ, 8-10 × 3-3,5.
14. **Ascochyta Opuli** Oud. Contr. Myc. Pays-bas XIV, p. 43. 3367  
*Hab.* in ramulis *Viburni Opuli*, Scheveningue Nederlandiæ. — Perithecia mellea, depressa 140  $\mu$ . lat, pertusa; sporulæ chlorinæ, 16 × 3,5, uniseptatæ, raro 2-3-septatæ.
15. **Ascochyta Diapensiæ** Rostr. Oest. Grönl. Svampe p. 28. 3368  
*Hab.* in foliis dealbatis *Diapensiæ lapponicæ*, Danmarks Groenlandiæ. — Perithecia epiphylla, minutissima, globosa; sporulæ ossiformes, sæpe 1-septatæ, 12-15 × 3-5.
16. **Ascochyta baccæ** Rostr. Till. Grönl. Svamp. p. 625. 3369  
*Hab.* in baccis *Empetri nigri*, Neriak Groenlandiæ. — Perithecia exigua, griseo-fusca; sporulæ 9-12 × 1,5-2, constricto-1-septatæ, hyalinæ, guttulatæ.
17. **Ascochyta Asclepiadis** Ell. et Ev. Proc. Acad. Phil. 1894, p. 364. 3370  
*Hab.* in foliis *Asclepiadis Cornuti*, Delaware Amer. bor. (COMMONS). — Maculæ amphigenæ, griseæ, zonatæ; perithecia epiphylla, nigra, pertusa, 100-110  $\mu$ . diam.; sporulæ 6-8 × 4, hyalinæ, tenuiter 1-septatæ.
18. **Ascochyta Salsolæ** Oud. Contrib. Fl. Myc. Pays-Bas XV, p. 14. 3371

— *Peritheciis* sparsis, minutis,  $\frac{1}{5}$ – $\frac{1}{8}$  mm. diam., immersis, atris, compressis, orbicularibus v. ellipticis, membranaceis, brunneis; sporulis lanceolatis, pallido-viridibus, 1-septatis, 9–12  $\approx$  2–2,5.

*Hab.* ad ramulos *Salsolæ Kali*, Scheveningue Nederlandiæ (DESTRÉE).

19. ***Ascochyta Fagopyri*** Bres. Hedw. 1892, p. 40.

3372

*Hab.* in foliis *Polygoni Fagopyri*, Königstein Saxoniae (KRIEGER). — *Maculæ* alutaceæ; *perithecia* epiphylla, 130–140  $\mu$ . diam.; *sporulæ* 16–18  $\approx$  6–7, constricto–1-septatæ.

20. ***Ascochyta Rhei*** E. et E. New Sp. North Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 160 (= *Phyllosticta Rhei* E. et E. olim). — *Sporulæ* demum constricto–1-septatæ, 7–12  $\approx$  3,5–4, hyalinæ (In fol. *Rhei Rhapontici*, Kansas et New Jersey Am. bor.).

3373

21. ***Ascochyta arophila*** Sacc. Grev. XXI, p. 67, t. 184, fig. 10. — *Maculis* oblongis, arescendo dealbatis, fusco-marginatis, 2–3 cm. long.; *peritheciis* gregariis amphigenis, lenticularibus, atris, pertusis, 100–110  $\mu$ . diam.; *sporulis* ellipsoideo-oblongis, 1-septatis, constrictulis, 2-guttulatis, 18–21  $\approx$  5–6, chlorino-hyalinis.

3374

*Hab.* in foliis languidis *Ari maculati* v. *italici*, pr. Rigny Galliæ (FLAGEOLET). Affinis *A. Iridis* et *A. Erythronii*.

22. ***Ascochyta Veratri*** Cav. F. Longob. exs. Pug. II, n. 98. — *Maculis* brunneo-ochraceis, primo linearibus dein determinatis, permagnis; *peritheciis* immersis, tenuissimis, laxè parenchymaticis, absque ostiolo; *sporulis* cylindricis v. clavulatis, rectis v. leniter curvulis, utrinque late obtusis, interdum truncatulis, 1-septatis, hyalinis, 16–20  $\approx$  4–5.

3375

*Hab.* in foliis vivis *Veratri albi* et *nigri* in Horto botanico, Pavia Ital. bor.

23. ***Ascochyta veratrina*** Ell. et Ev. Proc. Acad. Phil. 1894, p. 364,

3376

*Hab.* in foliis petiolisque *Veratri californici*, Washington Amer. bor. (Prof. PIPER). — *Perithecia* conoidea, erumpentia, 330,  $\mu$ . diam.; *sporulæ* 12  $\approx$  2,5–3, hyalinæ, tandem 1-septatæ.

24. ***Ascochyta Pteridis*** Bres. Hedw. 1894, p. 208.

3377

*Hab.* in frondibus *Pteridis aquilinæ*, Königstein Saxoniae (KRIEGER). — *Perithecia* subglobosa, 100–120  $\mu$ . diam., epiphylla; *sporulæ* 1-septatæ, hyalinæ, 15–20  $\approx$  4–6.

ROBILLARDA Sacc. — Syll. III, p. 407. X, p. 308.

1. ***Robillarda Cavaræ*** Tognin. Contr. Mic. Tosc. p. 12.

3378

*Hab.* in cortice Piri Mali in Etruria. — Perithecia globoso-lenticularia, 150-250  $\approx$  100-130; sporulæ 18-20  $\approx$  4-5, ex hyalino chlorinæ, 1-septatæ, rarius obsolete 2-septatæ, apice 3-4-setæ; basidia filiformia 40-50  $\mu$ . longa.

**ACTINONEMA** Fr. — Syll. III, p. 408, X. p. 309.

1. **Actinonema Psoraleæ** E. et E. New. Sp. North. Amer. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 159.

*Hab.* in foliis vivis Psoraleæ digitatæ, Kansas Amer. bor. (BARTHOLOMEW). — Maculæ amphigenæ, suborbiculares, brunneæ; perithecia discoidea, nigra, 75-90  $\mu$ . diam.; sporulæ hyalinæ, 2-nucleatæ, 12-15  $\approx$  3,5-4.

2. **Actinonema fagicola** Allesch. Hedw. 1894, p. 71. — Maculis centralibus subcircularibus, subniveis, minutis, 1-1,5 mm. diam., interdum confluentibus, obscure marginatis; fibrillis e margine macularum radiatim excurrentibus, delicatulis, dendroideo-ramulosis, cinereis?; perithecii punctiformibus, minutissimis, sparsis, atris; sporulis nondum visis.

*Hab.* in foliis Fagi silvaticæ, in Bavaria.

**DIPLODINA** West. — Syll. III, p. 411, X, p. 311.

1. **Diplodina clematidina** Fautr. & Roum. Rev. Myc. 1892, p. 105.

*Hab.* in ramulis Clematidis Vitalbæ, Noidan Galliae. — Perithecia flavida, subcutanea; sporulæ 1-septatæ, dilute flavidæ, 8-10  $\approx$  3-4, non constrictæ.

2. **Dipodina epidermidis** Lamb. et Faut. Rev. Myc. 1894, p. 75. — Perithecii subepidermicis, *Didymospheriam Epidermidis* æmulantibus sed majoribus ascisque destitutis; sporulis hyalinis, cylindraceis, 1-septatis, 16-18  $\approx$  4.

*Hab.* ad ramulos Berberidis vulgaris, Côte-d'Or Galliae.

3. **Diplodina Coronillæ** Brun. Champ. Charente-Infer. 1892, p. 36. — Perithecii minutis, subglobulosis, atro-brunneis, sparsis, erumpentibus; sporulis oblongo-elongatis, hyalinis, 1-septatis, septo non constrictis, 15  $\approx$  3,5.

*Hab.* ad ramulos emortuos Coronillæ Emeri, Saintes Galliae.

4. **Diplodina Photiniæ** Brun. Glan. mycol. ser. 3, Herbor. 1892-93 p. 6. — Perithecii sparsis, globulosis, atris, vix erumpentibus; sporulis oblongis, apice rotundatis, 1-septatis, subhyalinis, 14  $\approx$  4.

*Hab.* ad ramulos emortuos Photiniæ serrulatæ, Saintes in Gallia.



5. *Diplodina Tropæoli* Roum. et Fautr. Rev. Myc. 1892, p. 170. 3385  
*Hab.* in caulibus siccis *Tropæoli* majoris, Noidan Galliæ.  
 — Perithecia late aperta, 200 = 100; sporulæ hyalinæ, 1-septatæ, constrictæ, 15-18 = 6-8.
6. *Diplodina Ovalifolii* Brun. Champ. Charente-Infer. 1892, p. 36. — 3386  
 Peritheciis minutis, atris, erumpentibus; sporulis subfusiformibus, subhyalinis 1-septatis, septo non constrictis, 14-15 = 4.  
*Hab.* ad truncos emortuos *Ligustri ovalifolii*, Saintes Galliæ.
7. *Diplodina Helianthi* Fautr. Rev. Mycol. 1895, p. 70. 3387  
*Hab.* in caulibus *Helianthi* annui, Côté d'Or Galliæ. — Perithecia e conico applanata; sporulæ constricto-1-septatæ, 12 = 4, hyalinæ.
8. *Diplodina Bidentis* Fautr. et Rollandin Rev. Myc. 1893, p. 113. 3388  
*Hab.* in caulibus siccis *Bidentis frondosæ*, Noidan Galliæ.  
 — Perithecia late gregaria, applanata, nigra, tecta, late aperta; sporulæ 1-septatæ, 8-10 = 4-4,5.
9. *Diplodina Ligustri* Delacr. Bull. Soc. Myc. 1893, p. 187, tab. XII, fig. 3. 3389  
*Hab.* in ramis *Ligustri vulgaris*, Saintes Galliæ. — Perithecia minuta, sparsa 110-120  $\mu$ . lat., pertusa; sporulæ 1-septatæ, 9 = 3, ex hyalino dilute luteolæ, non constrictæ.
10. *Diplodina Farnetii* Cavar. Mycol. Lomb. p. 26. — Peritheciis 3390  
 lenticularibus, elongatis, epidermide velatis, dein erumpentibus, minutissimo ostiolo proeminente præditis, 250-300  $\mu$ . lat. 100  $\mu$ . alt., nigro-fuscis; sporulis clavatis, utrinque attenuatis, 1-septatis, loculo inferiore brevior, in longissimum pedicellum persistentem desinenti, 18-22 = 3,5-4, absque pedicello.  
*Hab.* ad ramos siccos *Rumicis arifolii*, Pavia Ital. bor.
11. *Diplodina Thesii* Boy. et Jacs. Mat. Mycol. Montpell. p. 43. 3391  
*Hab.* in *Thesio* divaricato pr. Montpellier. — Perithecia globulosa, tecta; sporulæ hyalinæ, bicellulares, 12,5 = 2,5.
12. *Diplodina pisana* Berl. Micr. Tosc. in. N. G. B. it. 1892, p. 167. 3392  
*Hab.* in ligno decorticato, verisimiliter *Salicis* in horto botanico, Pisa. — Perithecia globoso-conoidea, minuta, atra; sporulæ 6-8 = 3, pallide luteolæ; basidia brevissima v. obsoleta.
13. *Diplodina Castaneæ* Prill. et Delacr. Bull. Soc. Myc. 1893, p. 276, cum ic. 3393  
*Hab.* in cortice *Castaneæ vescæ junioris*, cui valde noxia, Limoges Galliæ. — Perithecia subcutanea, conico-applanata, 300 =

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150, contextu atro-violaceæ, intus plurilocellata (?); sporulæ 6-7 × 1-1,5, non constrictæ, 1-septatæ; basidia 10-12  $\mu$ . longa.

14. *Diplodina Juglandis* Brun. Sphaerops. nouv. in Bull. Soc. Bot. Fr. 3394 1893, p. 224.

*Hab.* in valvis nucum exsiccatarum *Juglandis* regiæ, Saintes Galliæ. — Perithecia subglobosa, erumpenti-subsuperficialia; sporulæ hyalinæ, 1-septatæ, vix constrictæ, guttatæ, 15-18 × 8.

**RHYNCHOPHOMA** Karst. — Syll. III, p. 414.

1. *Rhynchophoma Platani* Berl. et Roum. Rev. Myc. 1887, p. 163. 3395

*Hab.* in ligno emortuo decorticato *Platani* prope Coimbra, Lusitanix. — Perithecia semiimmersa, glabra, in collum rigidulum tenue, perithecio 3-4-plo longius attenuata; sporulæ constricto-1-septatæ, 8-10 × 4-6, fuscellæ.

2. *Rhynchophoma Alni* Togn. Seconda Contr. Micol. to-c. p. 12. 3396

*Hab.* in trunco corticato *Alni* glutinosæ in Etruria. — Perithecia 0,5-0,7 mm. diam., atra, curvato-rostrata, innato-erumpentia; sporulæ 38-42 × 11, hyalinæ, 1-septatæ.

**CYTODIPLOSPORA** Oud. Contrib. Fl. myc. Pays-Bas XV, p. 14.

Etym. *cytos* cavitas et *diplospora* h. e. spora bilocularis). — Stroma prominens, verrucæforme, peridermate lacerato circumdatum, intus loculos difformes circulariter dispositos continens; sporulæ numerosæ, fusiformes, hyalinæ, biloculares, basidiis suffultæ.

1. *Cytodiplospora Castaneæ* Oud. Contrib. Fl. myc. Pays-Bas XV, 3397

p. 14. — Stomatibus numerosis, atris, hinc inde gregariis. prominentibus, 0,5-1 mm. diam., sæpe 2-3 confluentibus, rugosis, plurilocularibus; loculis in circulum dispositis, plus minus spatiosis; sporulis fusiformibus, hyalinis, bilocularibus, extremitatibus acuminatis, 9-12 × 2,5-3; basidiis sporulæ æquantibus.

*Hab.* ad ramulos *Castaneæ* vascæ, Schöveningue Nederlandiæ (DESTREE).

*Sect. 5. Phaeophragmiæ.*

**HENDERSONIA** Berk. — Syll. III, p. 419, X, p. 317.

1. *Hendersonia calycina* Brun. Champ. Charente-Infer. 1892, p. 36. 3398

— Peritheciis sparsis, globulosis, atris, erumpentibus; sporulis ovoideis v. ovoideo-oblongis, 3-septatis, septis vix constrictis, olivaceo-pallescentibus, 18 × 6.

*Hab.* ad cirros Clematidis calycinæ, Saintes Galliæ.

2. *Hendersonia Tragacanthæ* Delacr. Bull. Soc. Myc. 1893, p. 187, 3399  
t. XII, fig. 5.

*Hab.* in spinis Astragali *Tragacanthæ*, Marseille Galliæ.

— *Perithecia* subcutaneo-erumpentia, atro-olivacea, pertusa, 350  $\mu$ .  
lat.; sporulæ 3-septatæ, fusciculæ, 12-15  $\approx$  4-4.5.

3. *Hendersonia Malvacei* Brun. Fl. Myc. Saint et Four. in Bull. Soc. 3400  
Sc. N. de l'Ouest p. 219.

*Hab.* in ramis emortuis *Ribis malvacei*, Saintes Galliæ. —  
*Perithecia* atra, globulosa, tecta, fibrisequa; sporulæ 3-septatæ, fu-  
ligineæ, 15  $\approx$  3.

4. *Hendersonia Ribis-alpini* Fautr. Rev. Myc. 1892, p. 171. 3401

*Hab.* in ramis vivis *Ribis alpini* in rupibus Noidan, Côte-  
d'Or Galliæ. — *Perithecia* nigra, subcutanea, oblonga, vix erum-  
pentia; sporulæ 3-septatæ, 18  $\approx$  6, fuscae, loculo infimo acuto, hya-  
lino; basidia 18  $\approx$  2.

5. *Hendersonia evonymea* Fautr. et Roll. Rev. Myc. 1892, p. 171. 3402

*Hab.* in ramulis siccis *Evonymi europæi*, Côte-d'Or Gal-  
liæ. — *Perithecia* confluentia, tecta 250-350  $\mu$ . diam.; sporulæ vix  
fusciculæ, tandem 7-septatæ, 30-35  $\approx$  3-4, cylindraceæ; basidia,  
brevia, obliqua.

6. *Hendersonia æsculicola* Berl. Micr. Tosc. in N. G. B. it. 1892, 3403  
p. 167.

*Hab.* in parte inf. pericarpium *Æsculi Hippocastani* pr.  
Pisa Etruriæ (BECCARI). — *Perithecia* globoso-conoidea, atra, glo-  
bosa; sporulæ 2-septatæ, fuliginæ, 16-18  $\approx$  4-6.

7. *Hendersonia Staphylæ* E. et E. New Sp. north Am. Fung. in 3404

Proceed. Acad. S. N. Philad. 1893, p. 162, Syll. X, p. 318. —  
Sporulæ 3-septatæ, pallide brunneæ, loculo infimo hyalino, 15-18  
 $\approx$  4-5; basidia subæquilonga. (In ramis *Staphylæ trifoliæ*  
in Amer. bor.).

8. *Hendersonia Alternifoliæ* E. et E. New Sp. north Am. Fung. in 3405  
Proceed. Acad. S. N. Philad. 1893, p. 161.

*Hab.* in cortice *Corni alternifoliæ*, London Canada (DEAR-  
NESS). — *Perithecia* minuta, tecta, obtuse prominula; sporulæ  
3-septatæ, flavo-brunneæ, 23-30  $\approx$  11-12. Adsunt et sporulæ glo-  
bosæ 10-15  $\mu$ . diam. brunneæ et aliæ falcatæ hyalinæ 35-45  $\approx$  3,  
continuae.

8. *Hendersonia Saxifragæ* Fautr. et Roll. Rev. mycol. 1894, p. 161, 3403  
t. CL, fig. 5.

*Hab.* in foliis siccis Saxifragæ crassifoliæ, Côte d'Or Galliæ. — Perithecia 100  $\mu$ . diam., maculicola; sporulæ 2-3-septatæ, 12-16  $\approx$  3-4, dilute coloratæ.

10. **Hendersonia Peponis** Roll. Rev. Mycol. 1894, p. 73, tab. CLXI, f. 5. — Peritheciis sphæroideis, membranaceis, atris, papillatis, centro depressis 1 mm. diam. circ.; sporulis numerosis, cylindraceis, extremitatibus attenuatis, 3-septatis, fuliginéis, rectis v. subcurvulis, 14-22  $\approx$  2. 3407

*Hab.* in cortice vetusto fructus Cucurbitæ Peponis, Côte-d'Or in Gallia.

11. **Hendersonia Rubi** West. — Syll. III, p. 424 — forma **Euphorbiæ** Brun. Misc. Myc. II, p. 37. 3408

*Hab.* in caulibus emortuis Euphorbiæ amygdaloidis, Le Breuil-Magné Galliæ. — Perithecia typi; sporulæ 15  $\approx$  4, fuliginæ, 3-septatæ, loculo infimo hyalino.

12. **Hendersonia syringicola** Brun. Misc. Myc. II, p. 37. 3409

*Hab.* in ramis emortuis Syringæ vulgaris, Saintes Galliæ. — Perithecia tecta, globulosa, nigra, ostiolo tantum erumpente; sporulæ pallidissime fuliginæ, constricto-3-septatæ, 15-16  $\approx$  4.

13. **Hendersonia Rhododendri** Oud. Contrib. Fl. myc. Pays-Bas XV, p. 15. — Peritheciis jam senio exesis; sporulis ellipticis, violaceis, 3-septatis, superne rotundatis, inferne attenuatis, 14  $\approx$  7; basidiis hyalinis. 3410

*Hab.* ad ramulos Rhododendri culti, socio *Apiosporo Rhododendri*, La Haye Nederlandiæ (DESTREE).

14. **Hendersonia stygia** Ell. et Ev. Proc. Acad. Phil. 1894, p. 364. 3411

*Hab.* in ramis decorticatis dealbatis Populi moniliferæ Kansas Amer. bor. (BARTHOLOMEW). — Perithecia innato-erumpentia, ovato-globosa, 0,5 mm. diam. v. hysteriiformia, 1 mm. long., ostiolo papilliformi dein decedente et tunc late aperta; sporulæ 3-5-septatæ, 12-15  $\approx$  6-8, subopacæ, oculis extimis subhyalinis.

15. **Hendersonia lineolans** (Schw.) Starb. Stud. p. 86, f. 63; *Sphæria* Schw. — Syll. II, p. 423. — Perithecia 300  $\mu$ . diam.; sporulæ 3-septatæ, 30-40  $\approx$  10-12 atro-fuscæ, mucosæ obductæ; aliæ («paraphyses v. basidia?») filiformes, uncinatæ 20-22  $\approx$  1. (In ramis salicinis). Ob sporulas bifformes («?») cl. Starb. l. c. subgenus *Janosporam* condidit. 3412

16. **Hendersonia quercina** Sacc. — Syll. III, p. 441 — forma **Viminis** Roll. et Fautr. Rev. Mycol. 1894, p. 73, tab. CLXI, f. 6. — A typo differt conidiorum forma e colore multo saturatiore. 3413

*Hab.* ad truncos *Salicis viminalis*, Côte-d'Or in Gallia.

17. *Hendersonia geographica* Ell. et Ev. Journ. Myc. VII, p. 133. 3414

*Hab.* in foliis dejectis *Castaneæ vescæ*, Newfield N. J. Amer. bor. — Maculæ pallidæ; perithecia asteromatoideo-disposita, 250  $\mu$ . diam., atro-brunnea; sporulæ 3-septatæ, pallide brunneæ, 10-12  $\approx$  3-3,5.

18. *Hendersonia castaneicola* Delacr. Bull. Soc. Myc. 1893, p. 187, 3415 t. XII, fig. 4.

*Hab.* ad radices infossas decorticatas *Castaneæ vulgaris*, Paris Galliæ. — Perithecia superficialia, atra, gregaria, 150-200  $\mu$ . diam., ostiolo conico prominente; sporulæ fusco-olivaceæ, 3-septatæ, 12  $\approx$  4.

19. *Hendersonia pustulata* E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 457. 3416

*Hab.* in nucibus dejectis *Caryæ*, Newfield N. J. Amer. bor. — Perithecia pustulata, 0,5-1 mm. diam., in interiore nucum sessilia; sporulæ 3-septatæ, 10-12  $\approx$  3-3,5, pallide brunneæ, medio saturationes; basidia sporulis subæquilonga.

20. *Hendersonia Abietis* Roum. et Fautr. Rev. Myc. 1892, p. 106. 3417

*Hab.* in ramulis dejectis *Abietis* pr. Précy Côte-d'Or Gallia. — Perithecia 80-100  $\mu$ . diam., atro-nitida, innato-emergentia; sporulæ 3-septatæ, 4-guttatæ, pallide coloratæ, 12  $\approx$  4.

21. *Hendersonia falcata* Ell. et Ev. Proc. Acad. Phil. 1894, p. 365. 3418

*Hab.* in cortice *Abietis*, Newfoundland seu Terranova (WAGHORNE). — Perithecia 6-10 cæspitosa, erumpentia, pertusa dein collabentia; sporulæ falcatæ, flavidæ, 1-2-septatæ, 20-22  $\approx$  5-7; basidia sporulis breviora.

22. *Hendersonia etrusca* Togn. Seconda Contr. Micol. tosc. p. 12. 3419

*Hab.* in caule putri *Monocotyledonæ* cujusdam in Etruria. — Perithecia innata 250  $\mu$ . diam.; sporulæ 7-11-septatæ, melleæ, 40-47  $\approx$  6-7.

23. *Hendersonia Sabaleos* Ces. S. F., III, p. 234. var. *Livistonæ* Sacc. 3420

Fl. Myc. lusit. p. 19. — Peritheciis innato-erumpentibus, discoideis,  $\frac{1}{8}$  mm. diam., pertusis; sporulis tereti-fusoideis, utrinque acutulis, 14-15  $\approx$  4, olivaceo-melleis.

*Hab.* in foliis *Livistonæ* sinensis in Horto botanico, Coimbra Lusitaniæ.

24. *Hendersonia Junci* Boy. et Jacz. Mat. mycol. Montpell. p. 44. 3421

*Hab.* in calamis *Junci* pr. Montpellier. — Perithecia globulosa innata; sporulæ tereti-oblongæ, 3-septatæ, 12,5  $\approx$  5, olivaceæ.

25. *Hendersonia distans* Brun. Sphærops. nouv. in Bull. Soc. Bot. 3422  
1893, p. 224.

*Hab.* in foliis siccis Caricis distantis, Fouras Galliæ. — Perithecia amphigena, globulosa, nigra, erumpentia; sporulæ constricto-3-septatæ, fuliginæ, 20-22  $\times$  5-7.

26. *Hendersonia silvatica* Fautr. Rev. myc. 1894, p. 160, t. CL, fig. 6. 3423

*Hab.* in foliis siccis Bromi silvatici, Côte-d'Or Galliæ. — Perithecia perexigua, applanata, innata, pertusa; sporulæ 3-septatæ, bacillares, dilute coloratæ, 16-20  $\times$  3-4.

**ERIOSPORINA** Togn. Seconda Contr. Micol. tosc. p. 13 (Ety. *erion* lana et *spora*). — Perithecia carbonacea, pertusa, atra; sporulæ cylindraceæ, pluriseptatæ, olivaceæ, in fasciculum conjunctæ, stipite communi brevi crasso præditæ.

1. *Eriosporina Tritici* Togn. Seconda Contr. Micol. tosc. p. 13. 3424

*Hab.* in culmis siccis Tritici vulgaris in Etruria. — Perithecia 100  $\mu$ . diam. erumpentia, nigra; sporulæ 5-6-septatæ, dilute fuliginæ, octonæ-denæ, 20-28  $\times$  3, stipite subgloboso 5  $\mu$ . diam.

**MACROBATIS** Starb. Stud. p. 97 (Ety. *macros* longus et *basis*). — Perithecia e basi applanata ad matricem depressa, globoso-conica; sporulæ olivaceo-fuscae, transverse multiseptatæ.

1. *Macrobatis platypus* (Schw.) Starb. l. c. f. 76. — *Sphæria* Schw. 3425  
— Syll. II, p. 430. — Perithecia 300-400  $\mu$ . lat.; sporulæ 3-septatæ, 20-30  $\times$  5-7, obscuræ fuscae. (In caulibus *Anemones virginianæ*).

**CRYPTOSTICTIS** Fuck. — Syll. III, p. 443, X, p. 330.

1. *Cryptostictis Molleriana* Sacc. Flor. mycol. lusit. p. 19. — Peritheciis innato-emergentibus, amphigenis, globoso-lenticularibus, vix papillatis, atris, nitidulis, 400  $\mu$ . diam., contextu minute celluloso, robusto, fuligineo; sporulis tereti-fusoideis, curvis, obsolete 3-septatis, haud constrictis, 15-18  $\times$  3, coacervatis melleis, utrinque lateraliter 1-setis, setulis filiformibus, 11-15  $\times$  0,4, hyalinis, persistentibus. 3426

*Hab.* in foliis emortuis Eucalypti Globuli, Zombaria et in Horto botanico, Coimbra Lusitaniæ. — Obiter visa *Discosia* m refert. Basidia (setæ inferiores?) initio crassiuscula, brevina.

2. *Cryptostictis glandicola* (Schw. p. p.) Starb. Stud. p. 86, f. 64, 3427  
*Sphæria* Schw. p. p. — Syll. II, p. 412. — Perithecia 125-150  $\mu$ .

Sphaeropsideæ, Sphaerioidæ, Hyalophragmiæ, Stagonospora. 533  
diam.; sporulæ 3-septatæ 15-20 × 2,5-3, utrinque setigeræ. (In glandibus quercinis).

**PROSTHEMIUM** Kunze — Syll. III, p. 444.

1. *Prosthemium Tiliae* Otth Bern. Mittheil. 1868, p. 58. 3428

*Hab.* in ramis emortuis *Tiliae* spec. cultæ in Helvetia. — Perithecia globosa, tenera, tecta, papillata; sporulæ 5-loculares, 5-guttatæ, brunneæ, 35-37 × 7-8, octonæ v. pauciores stellatim junctæ et basidiis longis suffultæ.

**HENDERSONULA** Speg. — Syll. III, p. 445.

1. *Hendersonula?* *phyllachoroides* Sacc. Myc. Sib. II, n. 35. — Peritheciis in plagulas stromaticas, latiusculas, multifformes, atro-nitidas, phyllachoroideas, cuticula velatas, 3-5 mm. long. conjunctis, astomis, contextu parenchymatico fuligineo; sporulis (?) dense parallele stipatis, cylindraceis, apice rotundatis, 40-45 × 7-9, 4-septatis, haud constrictis, localis grosse 1-guttatis, fuligineis, extimis, pallidioribus, e basi sporigera vix secedentibus. 3429

*Hab.* in caulibus arescentibus levigatis Calimeridis altaicæ in desertis pr. Minussinsk (MARTIANOFF). Stirps peculiaris sed per dubia, sporulæ enim insuetæ, basidia quædam potius imitantur.

2. *Hendersonula macrosperma* Cav. fung. Long. Exs. III, p. 140, 3430 cum icon.

*Hab.* in palis corticatis salicinis, Pavia Ital. bor. — Stromata tecta, conico-applanata, nigra; perithecia 12-20 in quoque stromate, piriformia, in ostiolum unicum desinentia, intus albida; sporulæ 35-38 × 12-14, fusco-olivaceæ, 3-septatæ, non constrictæ, matricem demum atro-inquinantes; basidia longissima, hyalina, filiformia.

*Sect. 6. Hyalophragmiæ.*

**STAGONOSPORA** Sacc. — Syll. III, p. 445, X, p. 330.

1. *Stagonospora pedunculi* E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 457. 3431

*Hab.* in pedunculis vetustis *Liriodendri Tulipiferae*, Virginia occid. (NUTTALL). — Perithecia pustuliformia, 0,3 mm. diam., epidermide atrata tecta; sporulæ 18-22 × 2-2,5, multinucleatæ, hyalinae, rectæ.

2. *Stagonospora Liriodendri* E. et E. Proc. Acad. Phil. 1894, p. 365. 3432

534 Sphæropsideæ, Sphærioidæ, Hyalophragmiæ, Stagonospora.

*Hab.* in ligno denudato Liriodendri Tulipiferæ, New York (SHEAR). — Perithecia superficialia, conico-globosa, obtusa, 6,3 mm. diam.; sporulæ 8-10  $\approx$  2-2,5, hyalinæ, nucleatæ obsoleteque 1-septatæ; basidia 25-35  $\mu$ . longa, verticillato-ramosa.

3. **Stagonospora Physocarpi** Ell. et Ev. Proc. Acad. Phil. 1894, p. 365. 3433

*Hab.* in ramulis emortuis Physocarpi opulifolii, Virginia occid. (NUTTALL). — Perithecia depressa, 200-250  $\mu$ . diam., innata, ostiolo papillato erumpente; sporulæ 25-35  $\approx$  3-4, multiseptatæ, hyalinæ.

4. **Stagonospora petiolorum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 365. 3434

*Hab.* in petiolis emortuis Araliæ spinosæ, Virginia occid. (NUTTALL). — Perithecia innata, minuta, prominula, 150-250  $\mu$ . diam., sæpius ellipsoidea; sporulæ 12-20  $\approx$  3-5, hyalinæ, tandem 1-pluriseptatæ.

5. **Stagonospora Sambuci** Brun. Sphærops. nouv. in Bull. Soc. Bot. Fr. 1893, p. 224. 3435

*Hab.* in ramulis emortuis Sambuci nigræ, Saintes Galliæ. — Perithecia nigra, conferta, globulosa, erumpentia; sporulæ 12  $\approx$  3-3,5, hyalinæ, 5-septatæ.

6. **Stagonospora Baccharidis** Ell. Descr. New spec. Fung. in Journ. of Mycol. 1893, p. 276. 3436

*Hab.* in foliis vivis Baccharidis in Virginia (SWINGLE). — Perithecia epiphylla, hemisphærica, 110-120  $\mu$ . diam., late pertusa, nigra; sporulæ flavido-hyalinæ, 2-septatæ, 25-30  $\approx$  6-7, retiusculæ; basidia obsoleta.

7. **Stagonospora Galii** Fautr. Rev. Myc. 1892, p. 177. 3437

*Hab.* in caulibus Galii Molluginis, Côte-d'Or Galliæ. — Perithecia tecta, nigra, sparsa; sporulæ guttatæ, 18-22  $\approx$  4, uni-septatæ, obtusæ, inæquales.

8. **Stagonospora Vincetoxici** Fautr. et Roum. Rev. Myc. 1892, p. 113. 3438

*Hab.* in caulibus Cynanchi Vincetoxici, Côte-d'Or Galliæ. — Perithecia tecta, depressa, papillata, pertusa, pallida; sporulæ rectæ, 20-23  $\approx$  2-3, tri-guttatæ, subinde medio 1-septatæ.

9. **Stagonospora Spinaciæ** Ell. et Ev. Journ. Myc. 1892, VII, p. 132. 3439

*Hab.* in foliis Spinaciæ, Dakota Amer. bor. (WILLIAMS). — Maculæ amphigenæ, albidæ; perithecia epiphylla subhemisphærica, 75-100  $\mu$ . lata; sporulæ 15-30  $\approx$  8-10, hyalinæ, 1-3-septatæ.

10. **Stagonospora sclerotioides** E. et E. New sp. North. Am. Fung. Proceed. Acad. S. N. Philad. 1893, p. 162. 3440

*Hab.* in ligno decorticato Ostryæ virginicæ, London Ca-



- Sphæropsideæ, Sphærioidæ, Hyalophragmiæ, Stagonospora. 535
- nada (DEARNESS). — *Perithecia subseriata*, atra, globoso-elongata, 1 mm. diam., contextu subcorneo; sporulæ hyalinæ, 2-nucleatæ, 6-7  $\approx$  1,5.
11. **Stagonospora betulina** (Rostr.) Sacc. *Hendersonia betulina* Rostr. 3441  
Till. Grönl. Svamp. p. 625.  
*Hab.* in ramis Betulæ in Groenlandia. — *Perithecia subglobosa*, subcutaneo-erumpentia, 1 mm. diam., intus alba; sporulæ 3-septatæ, 16-18  $\approx$  3, hyalinæ.
12. **Stagonospora Juglandis** Brun. Sphærops. nouv. in Bull. Soc. Bot. 3442  
Fr. 1893, p. 224.  
*Hab.* in ramis emortuis Juglandis regiæ, Saintes Galliæ, socia *Diplodia Juglandis*. — *Perithecia globulosa*, nigra, erumpentia; sporulæ 18  $\approx$  5, hyalinæ, 3-septatæ.
13. **Stagonospora Abietis** Roll. et Fautr. Rev. Myc. 1894, pag. 74, 743  
Tab. CLXI, f. 10. — *Peritheciis punctiformibus*, ovalibus, membranaceo-tenuibus, erumpentibus, atris, sparsis, vix 300  $\mu$ . diam. ostiolo cupuliformi; sporulis longe fusiformibus, 3-6-septatis, hyalino-viridescentibus, 15-30  $\approx$  3; basidiis hyalinis.  
*Hab.* ad truncos Abietis excelsæ, Côte-d'Or in Gallia.
14. **Stagonospora scirpicola** Passer. in litt. ad Brun. Misc. myc. II, 3444  
p. 37.  
*Hab.* in calamis siccis Scirpi lacustris, Saintes Galliæ. — *Perithecia punctiformia*, nigra, sparsa; sporulæ 3-septatæ, hyalinæ, 12-18  $\approx$  2,5-3, oblongo-fusoidæ.
15. **Stagonospora caricinella** Brun. Sphærops. nouv. in Bull. Soc. 3445  
Bot. Fr. 1893, p. 224.  
*Hab.* in foliis siccis Caricis ripariæ, Fouras Galliæ. — *Perithecia perexigua*, nigra, innato-erumpentia; sporulæ 5-guttatæ, hyalinæ, 20-22  $\approx$  3,5-4, utrinque obtusæ.
16. **Stagonospora Strictæ** E. et E. New sp. North Am. Fung. in 3446  
Proceed. Acad. S. N. Philad. 1893, p. 162.  
*Hab.* in foliis Caricis strictæ, Kansas Amer. bor. (BARTHOLOMEW). — *Perithecia maculicola* 100-150  $\mu$ . diam., innata, pertusa, nigricantia; sporulæ constricto-2-septatæ, hyalinæ, 20-30  $\approx$  8-10.
17. **Stagonospora Glyceriæ** Roum. et Fautr. Rev. Myc. 1892, p. 178. 3447  
*Hab.* in foliis Glyceriæ spectabilis, Noidan Côte-d'Or Galliæ. — *Perithecia globulosa*, innata, pertusa; sporulæ subacutæ, 16  $\approx$  4, hyalinæ, 1-septatæ.

**MASTOMYCES** Mont. — Syll. III, p. 456.

1. *Mastomyces proboscidea* (Fr.) Sacc. Syll. III, p. 456, *Topospora* 3448  
Fr., Rostr. Oest. Gröenl. Svampe p. 28. — Sporulæ tereti-fusoidææ, hyalinæ, 3-septatæ, 20-25  $\approx$  2; basidia filiformia, sporulæ 3-4-plo longiora. — Genus Friesianum *Topospora* Fr. Fl. Scan. (1835) est *Mustomycete* Mont. (1848) antèrius, hinc præferendum.

## Sect. 7. Dictyosporæ.

**CAMAROSPORIUM** Schulz. — Syll. III, p. 459, X, p. 338.

1. *Camarosporium cercidicolum* Brun. Champ. Charente-Infer. 1892, 3449  
p. 36. — Peritheciis sparsis v. confertis, globulosis, atris, obtectis dein erumpentibus; sporulis ovoideo-oblongis, fuliginosis, extremitate dilutioribus, 3-septatis, 18-22  $\approx$  12-15.

*Hab.* ad ramulos emortuos *Cercidis Siliquastri*, Sainthes Gallæ.

2. *Camarosporium Gleditschiæ* Oud. Contrib. Fl. Myc. Pays-Bas XV, 3450  
p. 16. — Tantum nomen. (An idem ac *Cam. Triacanthi* Sacc.?).

*Hab.* ad ramulos *Gleditschiæ Triacanthi*, inter perithecia *Diplodii Gleditschiæ* et *Phomæ occidentalis*, in Nederlandia.

3. *Camarosporium Negundinis* E. et E. New West-Amer. Fung. p. 24. 3451  
in *Erythea* vol. II, 1894.

*Hab.* in ramis *Negundinis aceroidis*, in America boreali.  
— Perithecia 0,3-0,5 mm. diam., nigra, subglobosa, semierumpentia; sporulæ 10-15  $\approx$  7-10, brunneæ, 2-3-septatæ et subfenestratæ.

4. *Camarosporium Rhamni* Allesch. Hedw. 1894, p. 72. — Peritheciis 3452  
corticis erumpentibus, dense gregariis, serialim dispositis, globosis v. e mutua pressione angulosis; sporulis oblongis, utrinque rotundatis, 3-4-septatis muriformibusque, 16-20  $\approx$  10-12, fuliginis.

*Hab.* in ramulis *Rhamni Frangulæ*, in Bavaria.

5. *Camarosporium Paliuri* Berl. Micr. Tosc. n. N. G. B. it. 1892, 3453  
p. 168.

*Hab.* in ramis siccis *Paliuri australis*, pr. Florentiam. — Perithecia tecta 400-700  $\mu$ . diam., nucleo atro farcta; sporulæ 3-septato-muriformes, atro-fuliginæ, 14-16  $\approx$  10-12.

6. *Camarosporium Celtidis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 366. 3454

*Hab.* in ramis emortuis *Celtidis occidentalis*, Kansas Amer. bor. (BARTHOLOMEW). — Perithecia ovoidea 0,3 mm. diam., tecta, ostiolo cylindræco erumpente; sporulæ 12-15  $\approx$  4-5, brunneæ, 3-septatæ, subinde 5-6-septato-muriformes, 15-20  $\approx$  5-7.

7. *Camarosporium Syringæ* Oud. Hedwigia 1894, p. 20.

3455

*Hab.* in ramis *Syringæ vulgaris*, Schèvevingue Nederlandiæ (DESTRÉE). — Perithecia conica perforata, erumpentia; sporulæ 5-septato-muriformes, 18-23 = 7, olivascenti-fuscae.

8. *Camarosporium Eriogoni* E. et E. New West Amer. Fung. in *Erythea* p. 200, 1893.

3456

*Hab.* in caulibus emortuis *Eriogoni*, Colorado Amer. bor. (BAKER). — Perithecia erumpentia, nigra, globoso-hemisphærica, 100  $\mu$ . diam., subpapillata; sporulæ subgloboso-cuboideæ, brunneæ, cruciatim septatæ.

9. *Camarosporium Solandri* Cooke Grev. XXI, p. 1.

3457

*Hab.* in ramis *Fagi Solandri*, in Nova Zelandia (KIRK). — Perithecia erumpentia, nigra, subglobosa, sæpe cæspitosa; sporulæ 3-septato-muriformes, 20-25 = 8, brunneæ, loculis extimis hyalinis.

10. *Camarosporium graminicolum* E. et E. New sp. North Am. Fung. in *Proceed. Acad. S. N. Philad.* 1893, p. 161.

3458

*Hab.* in culmis emortuis *Ammophilæ arenariæ*, New-York Amer. bor. — Perithecia innata 0,3 mm. diam.; sporulæ 20-30 = 12-15, pallide-brunneæ, 3-7-septato-muriformes, loculis extimis subhyalinis.

11. *Camarosporium varium* (Pers.?) Starb. Stud. p. 89, f. 67, *Sphæria* Pers. — Syll. II, pag. 389. — Perithecia 0,5-1 mm. diam.; sporulæ variæ cruciatim v. 3-8-septato-muriformes, 12-27 = 8-15, fusco-olivaceæ. (In ramis *Pruni Cerasi*). — *Hendersonia fissa* (Pers.) Sacc. Syll. III, p. 424 ob septa longitudinalia *Camarosporium fissum* (Pers.) Starb. est dicenda.

3459

12. *Camarosporium Mali* E. et E. New sp. North Am. Fung. in *Proceed. Acad. S. N. Philad.* 1893, p. 161.

3460

*Hab.* in ramis decorticatis *Piri Mali*, Canada (DEARNESS). — Perithecia erumpenti-superficialia, subhemisphærica, 0,3 mm. diam., papillata; sporulæ 12-15 = 6-7, 5-8-septato-muriformes, brunneæ.

13. *Camarosporium Ariæ* Oud. Contrib. Fl. myc. Pays-Bas XV, p. 15. — Peritheciis oblitteratis, subepidermicis, applanatis; sporulis mixtis, nonnullis *Diplodiciæ* et *Hendersoniæ* sporulas æmulantibus, aliis ellipticis, 3-septatis, medio loculo longitudinaliter diviso, umbrinis, extremitatibus rotundatis, 14-16 = 7.

3461

*Hab.* ad ramulos *Sorbi Ariæ* in Nederlandia.

## CYTOSPORIUM Peck — Syll. III, p. 470, X, p. 347.

1. *Cytosporium Heclæ* Rostr. Oest. Grönl. Svampe p. 28.

3462

*Hab.* in ramis decorticatis Salicis groenlandicæ, Danmarks Groenlandiæ. — Perithecia superficialia, hemisphærica, atra, subastoma, 0,3 mm. diam.; sporulæ 12-14  $\approx$  8-19; radiatim v. cruciatim 3-6-septatæ, v. 2-4-septato-muriformes, fuliginææ.

### Sect. 8. Scolecosporæ.

**SEPTORIA** Fr. — Syll. III, p. 474, X, p. 349.

1. **Septoria Jackmani** Ell. et Ev. Journ. Myc. VII, p. 132.

3463

*Hab.* in foliis Clematidis Jackmanii cultæ Geneva, N. Y. Amer. bor. (FAIRCHILD). — Maculæ indefinitæ, flavidæ; perithecia conico-hemisphærica, majuscula, prominula; sporulæ 40-70  $\approx$  2,5-3, clavulatæ, guttulatæ, hyalinæ.

2. **Septoria Trautvetteriæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 368.

3464

*Hab.* in foliis Trautvetteriæ palmatæ, in Virginia occid. (NUTTALL). — Maculæ angulosæ, atro-brunnæ, centro albæ; perithecia epiphylla, 65-75  $\mu$ . diam.; sporulæ 22-30  $\approx$  2, continuæ.

3. **Septoria Lunariæ** Ell. et Dear. New Spec. Canad. Fung. in Canad. Rec. Sc. 1893, p. 269.

3465

*Hab.* in siliculis Lunariæ biennis, Canada (DEARNESS). — Perithecia atra, 55-85  $\mu$ . diam.; sporulæ 10-16  $\approx$  1, hyalinæ, continuæ, rectæ vel flexuosæ.

4. **Septoria hyalina** Ell. et Ev. Proc. Acad. Phil. 1894, p. 363.

3466

*Hab.* in foliis Violæ lanceolatæ, V. primulæfoliæ et V. blandæ in Amer. bor. — Maculæ albæ, purpureo-cinctæ; perithecia 65-75  $\mu$ . diam.; sporulæ 20-40  $\approx$  1-1,3, nucleolatæ, hyalinæ.

5. **Septoria Astragali** (Desm.) Sacc. — Syll. III, p. 508. — forma *santonensis* Brun. Misc. myc. II, p. 37.

3467

*Hab.* in foliis Astragali glycyphylli, Taillebourg Galliæ. Maculæ griseo-viridulæ, brunneo-marginatæ; sporulæ 35-55  $\approx$  2,5-3, hyalinæ 3-5-guttulato-septulatæ.

6. **Septoria Lespedezæ** E. et E. New Fung. in Proceed. Acad. N. Sc. Philad. 457.

3468

*Hab.* in foliis Lespedezæ sp., London, Canada Amer. bor. (DEARNESS). — Maculæ griseo-brunnæ, subangulosæ; perithecia subglobosa, 75  $\mu$ . diam., atræ; sporulæ 12-20  $\approx$  1-1,2, nucleolatæ, aciculares.

7. **Septoria Saccharini** Ell. et Ev. Journ. Myc. VII, p. 132.

3469

*Hab.* in foliis vivis Aceris saccharini, Niagara, Canada (DEARNESS). — Maculæ amphigenæ, albæ; perithecia epiphylla, len-

ticularia, brunnea, 200  $\mu$ . diam.; sporulæ 40-50  $\approx$  1,5-2, clavulatæ, nucleolatæ, hyalinæ. — Var. **occidentalis** Ell. et Ev. Proc. Acad. Phil. 1894, pag. 367. — In foliis *Aceris glabri*, Washington Amer. bor. (PIPER). A typo differt maculis minutis albis et peritheciis in soros collectis.

8. **Septoria circinata** Ell. et Ev. Proc. Acad. Phil. 1894, p. 367. 3470

*Hab.* in foliis *Aceris circinata*, Washington Amer. bor. (PIPER). — Maculæ orbiculares, flavidæ; perithecia amphigena, subcircinate disposita, 75  $\mu$ . diam.; sporulæ 30-60  $\approx$  1-1,2, continuæ, nucleatæ.

9. **Septoria apatela** Allesch. in Magn. Verz. Kisling. Pilze p. 9. 3471

*Hab.* in foliis juniorum plantarum *Aceris platanoidis*, Unterfranken Germaniæ. — Maculæ amphigenæ, brunneæ, minutæ; perithecia hypophylla, brunneola; sporulæ 40-50  $\approx$  2-2,5, hyalinæ, 3-pluriseptatæ.

10. **Septoria Negundinis** E. et E. New sp. North Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 165. 3472

*Hab.* in foliis *Negundinis aceroidis*, London Canada (DEARNESS). — Maculæ amphigenæ, minutæ; perithecia pallida dein atra; sporulæ 25-50  $\approx$  2, curvulæ, 1-3-septatæ.

11. **Septoria Peraphylli** Peck 45 Rep. p. 24. 3473

*Hab.* in foliis vivis *Peraphylli ramosissimi*, South. Utah Amer. bor. (JONES). — Maculæ rubro-brunneæ, centro albidæ; perithecia epiphylla, prominula, nigra, nitida; sporulæ 25-40  $\approx$  6-7, cylindraceæ, inæquales, nucleatæ, obscure 1-septatæ, subhyalinæ.

12. **Septoria Aucupariæ** Bres. Hedw. 1892, p. 40. 3474

*Hab.* in foliis *Sorbi Aucupariæ*, Königstein Saxonie (KRIEGER). — Maculæ alutaceo-luridæ, obsoletæ; perithecia amphigena, 150-160  $\mu$ . diam.; sporulæ 50-70  $\approx$  3-4, dilute olivaceæ, 3-pluriseptatæ.

13. **Septoria staganosporioides** Massal. Nuova contr. Micol. Veron. p. 43, t. IV, fig. 11-13. 3475

*Hab.* ad folia *Pruni Laurocerasi* in viridario comitis Pompei, Illasi Veron. — Maculæ subnullæ; perithecia 140-200  $\mu$ . diam., nigra, hypophylla, dense disseminata, sublenticularia; sporulæ 15-20  $\approx$  2-3, guttulatæ, subchlorinæ.

14. **Septoria purpureo-cincta** E. et E. New sp. North Am. Fung. in Proceed. Acad. S. N. Phil. 1893, p. 163. 3476

*Hab.* in foliis *Pruni americanæ*, Kansas Amer. bor. (BARTHOLOMEW). — Maculæ amphigenæ, albæ, purpureo-marginatæ;

perithecia epiphylla, 75-85  $\mu$ . diam., prominula; sporulæ bacillares 20-30  $\approx$  2, nucleatæ, hyalinæ.

15. **Septoria Magnusiana** Allesch. in Magn. Verz. Kissing. Pilze p. 9. 3477

*Hab.* in foliis adhuc vivis *Spirææ chamædryfoliæ*, Kissingen Germaniæ. — Maculæ ochraceæ, sanguineo-cinctæ; perithecia epiphylla, lenticularia, late pertusa; sporulæ 20-30  $\approx$  2-2,5, guttulatæ, 1-3-septatæ, hyalinæ.

16. **Septoria Eugeniæ** Speg. Fl. Guar. nonn. n. 139, p. 50. 3478

*Hab.* in folia viva vel languida *Eugeniæ* sp., Guarapi Amer. merid. — Maculæ albidæ, sanguineo-cinctæ; perithecia 50-60  $\mu$ . diam., lenticularia; sporulæ 20-30  $\approx$  1,5, continuæ, hyalinæ.

17. **Septoria eugenicola** Speg. Fl. Guar. nonn. n. 138, p. 49. 3479

*Hab.* ad folia viva *Eugeniæ* sp., Guarapi Amer. merid. — Maculæ amphigenæ, sanguineæ, centro albidæ; perithecia epiphylla 80-100  $\mu$ . diam.; sporulæ 40-60  $\approx$  1, falcatae, hyalinæ, continuæ.

18. **Septoria Euryæ** P. Henn. Hedw. 1894, p. 233. 3480

*Hab.* in foliis *Euryæ canescentis*, in Æquatoria (LEHMANN). — Maculæ brunneo-fuscæ, dein medio albæ; perithecia epiphylla, minuta, nigra; sporulæ multiseptatæ, hyalinæ, 60-75  $\approx$  2-3.

19. **Septoria Glabræ** E. et E. New sp. North Am. in Proceed. Acad. S. N. Philad. 1893, p. 164. 3481

*Hab.* in foliis *Æsculi glabræ*, Indiana Amer. bor. (HICKS). — Maculæ brunneæ, centro albidæ; perithecia 75-85  $\mu$ . diam.; sporulæ 30-45  $\approx$  1,5-2, nucleolatæ.

20. **Septoria Vitis** Lév. Ann. Sc. Nat. 1846, pag. 279, Pirotta Vit. pag. 65. 3482

*Hab.* in foliis adhuc vivis *Vitis viniferæ* in Gallia et Belgio. — Maculæ amphigenæ, nigricantes; perithecia hypophylla, minutissima, gregaria; sporulæ fusoidæ, curvulæ, continuæ, hyalinæ.

21. **Septoria Ampelopsidis** Ell. Descr. New spec. Fung. in Journ. of Mycol. 1893, p. 276. 3483

*Hab.* in foliis *Ampelopsidis hederacæ*, Oregon Ill. Amer. bor. (WAITE). — Maculæ internerviæ, viridulæ, denique atro-brunneæ; perithecia subglobosa, 80-100  $\mu$ . diam., pertusa; sporulæ 30-50  $\approx$  3-3,5, hyalinæ, 4-8-septatæ.

22. **Septoria? acuriana** P. Henn. F. Æthiop. I, p. 122. 3484

*Hab.* in foliis vivis *Rhois retinorrhææ* pr. *Acrur Erythrææ*. — Maculæ epiphyllæ, flavescentes, subelevatæ; perithecia punctiformia, pertusa, fusco-brunnea; sporulæ 20-50  $\approx$  5-6, hyalino-fuscescentes, medio 1-septatæ.

23. *Septoria aurea* E. et E. New sp. North Am. Fung. in Proceed. 348  
Acad. S. N. Philad. 1893, p. 163.

*Hab.* in foliis *Ribis aurei*, Kansas et Wisconsin Amer. bor.  
— Maculæ amphigenæ, viridulæ, atrozonatæ; perithecia 80-100  
 $\mu$ . diam.; sporulæ 30-55  $\times$  1,5-2, hyalinæ, 3-5-septatæ. — var.  
*destruens* E. et E. l. c.: sporulæ 40-75  $\times$  2-2,5. Ibidem

24. *Septoria Mitellæ* E. et E. New sp. North Am. Fung. in Proceed. 3586  
Acad. S. N. Philad. 1893, p. 163.

*Hab.* in foliis *Mitellæ diphyllæ*, Michigan Amer. borealis  
(Hicks). — Maculæ ferrugineo-brunnæ, centro albidæ; perithecia  
epiphylla, discoideæ, 75-80  $\mu$ . diam.; sporulæ 15-22  $\approx$  1, hyalinæ.

25. *Septoria Megarrhizæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 369. 3487

*Hab.* in foliis *Megarrhizæ Oregonæ*, Washington (PIPER).  
— Maculæ albidæ, atro-marginatæ; perithecia epiphylla, pallida,  
80-110  $\mu$ . diam.; sporulæ 40-60  $\times$  2,5-3, hyalinæ, nucleolatæ.

26. *Septoria Echinocystis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 366. 3488

*Hab.* in foliis *Echinocystis Marah*, California (BLASDALE).  
— Maculæ internerviæ, viridulæ, dein brunneæ; perithecia glo-  
bosa, 80  $\mu$ . diam., brunnea; sporulæ 25-50  $\approx$  2,5-3, hyalinæ, 1-2-  
septatæ.

27. *Septoria? Circææ* Fautr. Rev. Myc. 1893, p. 23. 3589

*Hab.* in foliis *Circææ lutetianæ*, Côte-d'Or Galliæ. —  
Maculæ aridæ, brunneo-cinctæ; perithecia perexigua, amphigena,  
sparsa; sporulæ non visæ. «Ergo species dubii generis».

28. *Septoria Weissii* Allesch. Verz. Süd-Bay. Pilze III, p. 53. 3490

*Hab.* in pag. inf. foliorum *Chærophylli hirsuti* in Bava-  
ria sup. — Maculæ nullæ; perithecia sæpius hypophylla, depressa,  
fusca; sporulæ 50-80  $\approx$  2-3, guttulado-multiseptatæ, hyalinæ.

29. *Septoria Laserpitii* Cav. Fung. Long. Exs. III, n. 142 et Bot. 3491  
Centralbl. 1894, I, p. 72.

*Hab.* in foliis *Laserpitii latifolii* in Apenninis. — Maculæ  
parvæ, angulosæ, flaventes, centro nigricantes; perithecia hypophylla,  
130-150  $\mu$ . diam.; 45-50  $\times$  3-3,5, hyalinæ, triseptatæ.

30. *Septoria Pimpinellæ* Ell. Descr. New spec. Fung. in Journ. of 3492  
Mycol. 1893, VII, p. 277.

*Hab.* in foliis *Pimpinellæ integerrimæ*, Minnesota Amer.  
bor. — Maculæ nullæ; perithecia 120-130  $\mu$ . diam., amphigenæ;  
sporulæ 15-20  $\approx$  1,2, continuæ, hyalinæ. Socia adest *Phyllosticta*  
sporulis 6-9  $\approx$  2,5.

31. *Septoria daucina* Brun. Glan. mycol. ser. 2, Herbor 1892, p. 8. 3493

— Maculis amphigenis, numerosis, sparsis v. approximatis, interdum confluentibus, brunneis, subrotundatis, oblongis v. irregularibus, centro pallidioribus, margine brunneo; peritheciis minutissimis, atris; sporulis filiformibus, rectis v. flexuosis, hyalinis,  $25-50 \approx 1-2$ .

*Hab.* ad folia Dauci Carotæ, Saint-Laurent-de-la-Prée, in Gallia.

32. *Septoria Ceanthis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 367. 3494

*Hab.* in foliis Ceanthis sarmentosæ, Washington Amer. bor. (PIPER). — Maculæ albæ, angulosæ; perithecia 75  $\mu$ . diam., nigricantia; sporulæ  $20-35 \approx 1,5-2$ , nucleatæ, hyalinæ.

33. *Septoria micropuncta* Ell. et Ev. Proc. Acad. Phil. 1894, 3495 p. 369.

*Hab.* in foliis Omorrhizæ Washington Amer. bor. (SOUTHWORTH). — Maculæ angulosæ, albæ, atro-cinctæ; perithecia minuta, atra; sporulæ  $18-27 \approx 1,2-1,5$ , continuæ.

34. *Septoria Araliæ* E. et E. New West Amer. Fung. in Erythea, 3496 1893, p. 200.

*Hab.* in foliis Araliæ californicæ, Mill Valley Amer. bor. (BLASDALE). — Maculæ amphigenæ, flavidæ; perithecia epiphylla, 70-75  $\mu$ . diam.; sporulæ  $20-28 \approx 1,2-1,5$ , nucleolatæ.

35. *Septoria Chrysanthemi* Allesch. Verz. Süd-Bay. Pilze III, p. 57 3497 (1891).

*Hab.* in foliis adhuc vivis Chrysanthemi Leucanthemi in Bavaria sup. — Maculæ ochraceæ, fusco-marginatæ; perithecia epiphylla, punctiformia; sporulæ  $40-50 \approx 2-2,5$ , pluriguttatæ v. obscure septatæ, hyalinæ.

36. *Septoria chrysanthemella* Cav. Fung. Lang. exs. n. 40 et Con- 3498 trib. Mic. Lomb. p. 266 (sub nom. *Sept. Chrysanthemi*). — Maculis orbicularibus, magnitudine varia, fusco-rubris, centro areola ochracea; peritheciis innato-prominulis globosis 100-120  $\mu$ . diam., in ostiolum conicum productis, peridio tenui, membranaceo, flavescenti; sporulis hyalinis, filiformibus vel flagelliformibus, apicibus attenuatis continuis, minutissime guttulatis,  $55-65 \approx 1\frac{1}{2}-2$ .

*Hab.* in foliis Chrysanthemi sp. cult. in hortis ticinensibus Ital. bor. — « An satis diversa a præcedente? ».

37. *Septoria Lepachidis* E. et E. New sp. North Am. Fung. in Pro- 3499 ceed. Acad. S. N. Philad. 1893, p. 164.

*Hab.* in foliis Lepachidis columnaris, Kansas Amer. bor. (BARTHOLOMEW). — Maculæ griseo-brunneæ; perithecia epiphylla



- 75-80  $\mu$ . diam., pertusa; sporulæ 15-20  $\times$  1,2-1,5 nucleolatae, hyalinæ.
38. **Septoria Polymniæ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 368. 3500  
*Hab.* in foliis Polymniæ Uvedaliæ, in Virginia occid. (NUTTALL). — Maculæ internerviæ, virentes; perithecia epiphylla 75  $\mu$ . diam.; sporulæ 35-50  $\times$  1-1,3, continuæ.
39. **Septoria Tinctoriæ** Brun. Misc. myc. II, p. 37. 3501  
*Hab.* in foliis Serratulæ tinctoriæ, Saintes Galliæ. — Perithecia maculicola, perexigua, nigricantia, pertusa; sporulæ filiformes, continuæ, 35  $\times$  1-1,5; maculæ e brunneo cinerescens, rufo-marginatæ.
40. **Septoria Gaillardiæ** E. et E. New sp. North Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 164. 3502  
*Hab.* in foliis Gaillardiæ pulchellæ, Kansas Amer. bor. (BARTHOLOMEW). — Maculæ brunneæ, centro albidæ; perithecia amphigena, 75-90  $\mu$ . diam.; sporulæ 45-65  $\times$  1,2-1,5, nucleolatae.
41. **Septoria Buphthalmi** Allesch. Verz. Süd-Bay. Pilze III, p. 56. 3503  
*Hab.* in foliis adhuc vivis Buphthalmi salicifolii pr. München et Oberammergau Baviaræ. — Maculæ amphigenæ initio purpureæ v. olivaceæ; perithecia punctiformia, atra; sporulæ 24-30  $\times$  2,5, hyalinæ, 3-septatæ.
42. **Septoria palustris** (Ces.) Sacc. *Depazea* Ces. Bot. Zeit. 1856, p. 445. 3504  
*Hab.* ad folia radicalia Compositæ ejusdam (Hieracii?) Vercelli Ital. bor. — Sporulæ aciculares, utrinque acutæ, hyalinæ 60  $\mu$ . longæ.
43. **Septoria Ludoviciana** Ell. et Ev. Proc. Acad. Phil. 1894, p. 363. 3505  
*Hab.* in foliis Lactuæ Ludovicianæ, Colorado Amer. bor. (BAKER). — Maculæ brunneæ, internerviæ; perithecia epiphylla, 75-80  $\mu$ . diam., nigra; sporulæ 15-25  $\times$  2, continuæ.
44. **Septoria amicabilis** Boy. et Jacz. Mat. mycol. Montpell. p. 45. 3506  
*Hab.* in foliis Cephalaræ leucanthæ pr. Montpellier. — Maculæ expallentes, brunneo-marginatæ; perithecia perexigua, conoidea; sporulæ 70  $\times$  1,5-2.
45. **Septoria solanicola** Ell. et Ev. Proc. Acad. Phil. 1894, p. 366. 3507  
*Hab.* in foliis Solani umbelliferi, California (BLASDALE). — Maculæ orbiculares, pallide brunneæ; perithecia epiphylla, col. labentia, 100-110  $\mu$ . diam.; sporulæ tenuiter nucleatæ, 20-30  $\times$  1,5-2, hyalinæ.
46. **Septoria Pseudo-Quinæ** Pat. Bull. Soc. Myc. 1893, p. 159. 3508

*Hab.* in foliis Solani Pseudo-Quinæ, Quito Æquatoriæ.

Maculæ amphigenæ e fusco albidæ, nigro-cinctæ; perithecia 120  $\mu$ . diam.; sporulæ 50  $\approx$  1,5, pluriseptatæ, hyalinæ.

47. *Septoria Nicotianæ* Pat. Bull. Soc. Myc. 1892. p. 136.

3509

*Hab.* in foliis Nicotianæ, in Æquatoria. — Maculæ concentricæ zonatæ e brunneo albidæ; perithecia sæpius hipophylla, late pertusa, 90–140  $\mu$ . diam.; sporulæ 50–55  $\approx$  2–3, hyalinæ, 3–4-septatæ.

48. *Septoria Drummondii* Ell. et Ev. Journ. Myc. VII, p. 133.

3510

*Hab.* in foliis Phlogis Drummondii, Canada (DEARNBSS).

— Perithecia late sparsa, nigra, prominula, 100  $\mu$ . diam.; sporulæ 35–50  $\approx$  1,5–2, nucleatæ, rectiusculæ.

49. *Septoria Tecomæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 367.

3511

*Hab.* in foliis Tecomæ radicanis, in Virginia occident.

(NUTTALL). — Maculæ lætæ brunneæ; perithecia immersa, 65–70  $\mu$ . diam.; sporulæ 40–50  $\approx$  2–2,5, nucleatæ, hyalinæ.

50. *Septoria Lobeliæ-syphiliticæ* P. Henn. Hedw. 1895, p. 66.

3512

*Hab.* in foliis Lobeliæ syphiliticæ, in horto Berolinensi cultæ. — Maculæ fusco-brunneæ; perithecia punctiformia; sporulæ 45–55  $\approx$  1–1,2, multiguttulatæ, hyalinæ.

51. *Septoria reflexa* Brun. Misc. myc. II, p. 38.

3513

*Hab.* in foliis Elæagni reflexæ, Saintes Galliæ. — Maculæ ochraceæ, brunneo-cinctæ; perithecia punctiformia, nigra; sporulæ 20–35  $\approx$  2,5–3, guttulatæ, hyalinæ.

52. *Septoria leucostoma* Ell. Descr. new Spec. Fung. in Journ. of Mycol. 1893, VII, p. 277.

3514

*Hab.* in foliis vivis Fraxini americanæ, Indiana Amer. bor.

(FISCHER). — Maculæ rufo-brunneæ, luteo-cinctæ; perithecia 200–230  $\mu$ . diam. amphigena poro lato, ambitu albo; sporulæ 20–30  $\approx$  2,5, nucleatæ et 3-pseudoseptatæ.

53. *Septoria borealis* Rostr. Bidr. Ascom. Dovre p. 12.

3515

*Hab.* in foliis Linnææ borealis, Dovre Norvegiæ. — Perithecia epiphylla, sparsa, hemisphærica, nitida; sporulæ filiformes, rectæ v. flexuosæ, 50–60  $\approx$  2.

54. *Septoria kalmicola* (Schw.) Starb. Stud. p. 90, f. 69, *Sphaeria* Schw. — Syll. II, p. 440. — Perithecia 150  $\mu$ . diam.; sporulæ

3516

15  $\approx$  2,5. (In foliis Kalmiæ).

55. *Septoria solitaria* Ell. et Ev. Proc. Acad. Phil. 1894, p. 367.

3517

*Hab.* in foliis Rhododendri occidentalis, California (BLASDALE). — Maculæ amphigenæ, albæ, purpureo-cinctæ; peri-

tecia 120-150  $\mu$ . diam., globosa; sporulæ 20  $\approx$  2, bacillares, hyal. linæ.

56. **Septoria Lagerheimi** Pat. Bull. Soc. Myc. 1893, p. 159. 3518

*Hab.* in foliis *Vacciniæ* cujusdam, Corazon *Æquatoriæ*. — Maculæ amphigenæ, orbiculares, rufo-albidæ; perithecia epiphylla, nitida, 0,2 mm. lat.; sporulæ 50  $\approx$  3, hyalinæ.

57. **Septoria Acetosæ** Oud. Contrib. Fl. myc. Pays-Bas XV, p. 16 3519  
et Hedw. 1894, p. 20. — Maculis ferrugineis, sæpe purpureo-limitatis, usque ad 1 cm. lat.; peritheciis numerosis, amphigenis, 1 mm. circ. diam.; sporulis cylindræis, hyalinis 1-3-septatis, 40-50  $\approx$  4.

*Hab.* ad folia *Rumicis Acetosæ* in *Nederlandia*. — A *Septoria Rumicum* peritheciis solito epiphyllis et sporulis brevioribus et latoribus et a *S. Rumicis* sporulis longioribus et latio-ribus differt.

58. **Septoria Rumicis** Ell. Descr. new Spec. Fung. in Journ. of My- 3520  
col. 1893, VII, p. 277.

*Hab.* in foliis *Rumicis* spec. *Minnesota* (HOLZINGER). — Maculæ amphigenæ, griseæ, brunneæ; perithecia punctiformia, brunnea; sporulæ 15-25  $\approx$  1,5-2, nucleolatæ, curvulæ.

59. **Septoria Phytolaccæ** Cav. Contrib. Micol. Lomb. p. 267. 3521

*Hab.* in foliis *Phytolaccæ* decandræ, pr. *Pavia* Ital. bor. — Maculæ lutescentes, ochraceo-zonatæ; perithecia epiphylla, 90-120  $\mu$ . diam., nigra; sporulæ 45-55  $\approx$  2, guttulatæ, spurie 1-3-septatæ, hyalinæ.

60. **Septoria Crotonis** Bres. in Hennings F. *Æthiop.* I, p. 122. 3522

*Hab.* in foliis *Crotonis macrostachyi* pr. *Saganeiti Erythrææ*. — Maculæ nullæ; perithecia epiphylla, lenticularia, 300-350  $\mu$ . diam.; sporulæ clavulatæ 25-40  $\approx$  4-6, hyalinæ, 2-3-septatæ.

61. **Septoria carpogena** E. et E. New Sp. north Am. Fung. in Pro- 3523  
ceed. Acad. S. N. Philad. 1893, 1893, p. 165.

*Hab.* in ramis et fructibus emortuis *Celtidis occidentalis*, Delaware Amer. bor. (COMMONS). — Maculæ nullæ; perithecia ovato-globosa, nigra, papillata; sporulæ 4-pluri-nucleatæ, hyalinæ, 20-30  $\approx$  3.

62. **Septoria gigaspora** E. et E. New Fung. in Proceed. Acad. N. Sc. 3524  
Philad. 1898.

*Hab.* in foliis *Celtidis occidentalis*, Kansas Amer. bor. (BARTHOLOMEW). — Maculæ amphigenæ, brunneæ, zonatæ, centro albæ; perithecia globosa, 150-200  $\mu$ . diam. ostiolo perforato; sporulæ 75-100  $\approx$  6-8, granulosæ, demum multiseptatæ, hyalinæ.

63. **Septoria alnifolia** Ell. et Ev. Proceed. Acad. Phil. 1894, p. 366. 3525

*Hab.* in foliis Alni rubræ, Washington Amer. bor. (PIPER).

— Maculæ rufo-brunnæ; perithecia epiphylla, nigra, minuta, 80–100  $\mu$ . diam.; sporulæ 35–55  $\approx$  3, pluriguttatæ, valde curvatæ.

64. **Septoria Thuretii** Brun. Fl. Myc. Saint. et Four. in Bull. Soc. 3526  
S. N. Looft p. 219.

*Hab.* in foliis languidis Garryæ Thuretii, Saintes Galliæ.

— Maculæ pallidæ brunneæ, fusco-marginatæ; perithecia hypophylla, punctiformia; sporulæ 25  $\approx$  1,7–2, hyalinæ, subcontinuae.

65. **Septoria distachya** Brun. Champ. Charente-Infer. 1892, p. 37. — 3527

Peritheciis punctiformibus, sparsis, obtectis, dein liberis, brunneis v. atro-brunneis; sporulis hyalinis, cylindraceis, extremitatibus obtusis, curvulis, continuis, 18–22  $\approx$  1,5.

*Hab.* ad bracteas Ephedræ distachyæ, Saintes Galliæ.

66. **Septoria versicolor** Pat. Bull. Soc. Myc. 1893, p. 159. 3528

*Hab.* in foliis Dioscoreæ spec., pr. Quito Æquatoris (LAGHERIM). — Maculæ albido-cinereæ, brunneo-cinctæ; perithecia 60–100  $\mu$ . diam., fusco-brunnea, late pertusa; sporulæ 15–40  $\approx$  1–2, guttulatæ-septatæ.

67. **Septoria iridina** Sacc. Fl. mycol. lusit. p. 19. — Peritheciis hinc inde in maculas fumosas, circulari-ellipticas, 1–2 mm. long. dense aggregatis, innato-erumpentibus, globulosis, subinde imperfectis, 100–120  $\mu$ . diam., nigris; sporulis bacillaribus, rectis curvulisve, 18–21  $\approx$  1,5, hyalinis; basidiis brevibus sporulâ paullo crassioribus. 3529

*Hab.* in foliis emortuis Iridis foetidissimæ, Baleia pr. Coimbra Lusitaniæ.

68. **Septoria caricina** Brun. Misc. myc. II, p. 38. 3530

*Hab.* in foliis siccis Caricis arenariæ, Fouras Galliæ. — Maculæ nullæ; perithecia perexigua, subcutaneo-erumpentia, seriata; sporulæ 32–35  $\approx$  1–1,5, guttulatæ, obtusulæ.

69. **Septoria Bambusæ** Brun. Champ. Charente-Infer. 1892, p. 37. — 3531

Maculis pallide brunneis, irregularibus, magnis, nigro-limitatis; peritheciis numerosis sparsis v. confertis v. seriatis, globulosis, vix compressis, obtectis dein erumpentibus; sporulis cylindraceis, rectis, hyalinis, guttulatis 20  $\approx$  2,5–3.

*Hab.* ad folia putrescentia Bambusæ arundinaceæ, Saintes Galliæ.

70. **Septoria secalina** (Jancz.) Sacc. *Phoma secalina* Janczew. Recherch. sur le Cladosp. herbar. Crac. 1894, t. IV, f. 15–18. 3532

*Hab.* in vaginis Secalis, Tritici in Polonia etc., socia Sept.

*graminum*. — Perithecia seriata, punctiformia; sporulæ exilissimæ, filiformes, curvatæ,  $10 \approx 0,5$ , hyalinæ, basidiis conspicuis terebibus, crassis, 3-4-septatis apice acutis suffultæ, acro-pleurogenæ. *Sept. Briosianæ* Mor. affinis videtur.

71. **Septoria Avenæ** B. Frank Berichte deut. bot. Gesellsch. 1895, 3533 pag. 64.

*Hab.* in foliis Avenæ sativæ in Pomerania. — Perithecia 130  $\mu$ . diam., in maculis pallescentibus; sporulæ 28-43  $\approx$  3,5 2-4-septatæ.

72. **Septoria microspora** Ell. Descr. new Spec. Fung. in Journ. of Mycol. 1893, VII, p. 276.

*Hab.* in foliis Asprellæ Hystericis, Indiana Amer. bor. (Fischer). — Maculæ flavo-ferrugineæ; perithecia 30  $\mu$ . diam., amphigena; sporulæ 6-12  $\approx$  1-1,2, continuæ.

73. **Septoria agrestis** Sacc. *Septoria Agropyri* Brun. Fl. Myc. Saint. et Four. in Bull. Soc. S. N. Louer p. 219, 1894, nec Ell. et Ev. (1893).

*Hab.* in foliis siccis Agropyri repentis, Fouras Galliae. — Maculæ obsoletæ; perithecia amphigena, seriata, nigra; sporulæ guttulatæ, hyalinæ, 40  $\approx$  1,5-2.

74. **Septoria Agropyri** E. et E. New north Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 163.

*Hab.* in foliis Agropyri repentis, Wisconsin Amer. bor. (DAVIS). — Maculæ obsoletæ; perithecia 75  $\mu$ . diam., epiphylla; sporulæ 15-25  $\approx$  1,5, nucleolatæ, hyalinæ.

75. **Septoria brachypodii** Brun. Fl. Myc. Saint. et Four. in Bull. Soc. S. N. de l'ouest 1894, p. 220.

*Hab.* in foliis siccis Brachypodii pinnati, Saintes Galliae. — Maculæ obsoletæ; perithecia punctiformia, nigra; sporulæ 18  $\approx$  2, hyalinæ, continuæ.

76. **Septoria Elymi** Ell. et Ev. Journ. Myc. VII, p. 132.

3538

*Hab.* in foliis Elymi canadensis, London Canada Amer. bor. (DEARNESS). — Maculæ albidæ; perithecia globulosa, 100-120  $\mu$ . diam., epiphylla; sporulæ clavulatæ, nucleolatæ, 15-25  $\approx$  1,5-2, hyalinæ.

77. **Septoriæ Dictyotæ** Oud. Over twee nog onbekunde fungi, in Gewon. 1894, p. 54. — Peritheciis prominulis, globosis, 80  $\mu$ . diam., papilla apicali semidiaphana præditis, thallo absque ullo macularum vestigio applicatis; membrana peritheciolorum tenerrima e tela pseudoparenchymatica nigra constructa, unius cellulæ crassitiem non superante; sporulis conglobatis, quasi intricatis, achromis, singulis fla-

3539

gelliformibus, circinatis, multicellularibus,  $140 \approx 2$ , deorsum truncatis, sursum acuminatis.

*Hab.* ad frondes Dictyotæ obtusangulæ, Macassar, in ins. Celebes.

**TRICHOSEPTORIA** Cava, Malatt. Limon. p. 4 (Etym. *thrix* coma et *Septoria*). — Perithecia imato-erumpentia, maculicola, undique pilosa, membranacea; sporulæ bacillares, septatæ, hyalinæ. — Est *Septoria* pilis vestita.

1. *Trichoseptoria Alpei* Cav. l. c., tab. IV.

3540

*Hab.* in fructibus fere maturis Citri vulgaris in agro mediolanensi (E. BELGIOJOSO et V. ALPE), — Perithecia globoso-conica, comata, albo-cinerea, in maculis brunneo-ochraceis sita; pili flexuosi, subcontinui, subchlorini; ostiolum obsoletum; sporulæ  $12-16 \approx 2$ , hyalinæ, 1-2-septatæ.

**RHABDOSPORA** Mont. — Syll. III, p. 578, X, p. 387.

1. *Rhabdospora ribiseda* Roll. et Fautr. Rev. Myc. 1892, p. 177.

3541

*Hab.* in ramulis Ribis alpini, Côte-d'Or Galliae. — Perithecia  $180 \mu$ . diam., nigra, tecta; sporulæ  $60-70 \approx 1.5$ , hyalinæ, guttulatæ, pseudoseptatæ.

2. *Rhabdospora rhoisa* Peck 47 Rep. p. 22.

3542

*Hab.* ad ramos emortuos Rhois typhinæ, Cooperstown Junction Amer. bor. — Perithecia numerosa, epidermide pustulata tecta; sporulæ curvulæ, subfiliformes,  $12-15 \mu$ . longæ, in cirros flavidos eructatæ.

3. *Rhabdospora?* *rudis* (Preuss) Sacc. Fung. herb. Bruxell. n. 37.

3543

*Filaspora rudis* Preuss in sched. (in Herb. Brux.). — Peritheciis peridermio velatis, dein erumpentibus, globulosis, sæpe inæqualibus (rudibus),  $0.5-0.7$  mm. diam., gregariis, duriusculis, nigris; sporulis filiformibus, curvulis, eguttatis, continuis, hyalinis,  $22-28 \approx 0.7-1$ ; basidiis acicularibus, deorsum inflatulis,  $12 \approx 3$ , hyalinis.

*Hab.* in ramis Cytisi Laburni (verisimiliter), Hoyerswerda Silesiæ (PREUSS). — Peritheciis majusculis a generis typo non nihil recedit.

4. *Rhabdospora Conii* Lamb. et Fautr. Rev. Myc. 1892, p. 176.

3544

*Hab.* in caulibus siccis Conii maculati, Côte-d'Or Galliae. — Perithecia conferta, nigricantia, tecta, ostiolo late perforato; sporulæ  $60-80 \approx 2$ , flexuosæ, guttulatæ, hyalinæ.

5. *Rhabdospora Bresadolæ* Allesch. Verz. Süd-Bay. Pilze III, p. 61.

3545

*Hab.* in caulibus siccis *Astrantiae* majoris, *Peucedani* *Cervariae* et *Bupleuri longifolii* pr. München Bavariae sup. — *Perithecia* minima, 60-70  $\mu$ . diam., hyphis flaveolis innatis cincta, subcutanea; sporulae 18-30  $\approx$  1, hyalinae, filiformes.

6. *Rhabdospora Alsines* Mont. in Rab. Herb. Myc. ed. II, n. 744 (in 3516  
Herb. Brux.), Sacc. Fung. Herb. Bruxell. n. 36. — *Peritheciis* punctiformibus, globulosis, velatis, dein emergendo prominulis, 70-80  $\mu$ . d.; sporulis bacillaribus, curvulis, utrinque acutiusculis, 1-septatis, 16-18  $\approx$  2, hyalinis.

*Hab.* in caulibus calycibusque emortuis *Alsines tenuifoliae*, Vercelli Ital. bor. (CESATI). *Rhabd. Tunicae* Sacc. affinis.

7. *Rhabdospora hibiscicola* (Schw.) Starb. Stud. p. 91, f. 72, *Sphae-* 3547  
*ria* Schw. — Syll. II, p. 396. — *Perithecia* 100  $\mu$ . diam.; sporulae 15-20  $\approx$  1. (In caulibus *Hibisci palustris* et *H. militaris*).  
8. *Rhabdospora Lactucarum* (Schw.) Starb. Stud. p. 92, f. 71, *Sphae-* 3548  
*ria* Schw. — Syll. II, 431. — *Perithecia* 150-200  $\mu$ . diam.; sporulae 25-45  $\approx$  0,7. (In caulibus *Lactucæ* et *Sonchi*).  
9. *Rhabdospora Artemisiæ* E. et E. New West Amer. Fung. in Ery- 3549  
thea p. 201 (1893).

*Hab.* in caulibus emortuis *Artemisiæ dracunculoidis*, Fort Collins Colorado (BAKER). — *Perithecia* prominula, nigra, minuta, gregaria; sporulae 40-50  $\approx$  3, hyalinae, 1-3-septatae, vermiformes.

10. *Rhabdospora eupyrenoides* Sacc. Grev. XXI, p. 67, t. 184, f. 9. 3550  
— *Peritheciis* hinc inde densiuscule gregariis, majusculis, e globoso acute papillatis, nigris, duriusculis, vix  $\frac{1}{2}$  mm. diam., subcutaneis, mox cute secedente superficialibus; sporulis longe bacillaribus, utrinque acutulis, sæpe curvis, 90-100  $\approx$  3, 20-30-guttulatis, hyalinis.

*Hab.* in caule emortuo *Euphrasiæ*, pr. Rigny Galliae (FLA-  
GEOLET). Affinis *R. eupyrenæ*.

11. *Rhabdospora Jasmini* (Schw.) Cooke Grev. XX, p. 80, *Sphaeria* 3551  
*Jasmini* Schw. Amer. bor. 1704 — Syll. II, p. 426. — Sporulae filiformes, curvae v. rectae, 22  $\mu$ . longae. (In surculis *Jasmini*).  
12. *Rhabdospora Epidermidis* Fautr. Rev. Myc. 1893, p. 118. 3552

*Hab.* in stolonibus adhuc vivis *Viburni Opuntii*, Côte-d'Or Galliae, socia *Didymosphæria Epidermidis*. — *Perithecia* punctiformia, astoma, atro-nitidula, innata; sporulae 40-60  $\approx$  1,5, filiformia.

13. *Rhabdospora Lysimachiae* Berl. et Roum. Rev. Myc. 1887, p. 164. 3553

*Hab.* in caulibus *Lysimachiae Ephemeri* pr. Coimbra Lu-

sitanieæ. — Perithecia 180-200  $\mu$ . diam., tecta, ostiolo vix prominulo; sporulæ 20-25  $\approx$  2, hyalinæ, continuæ; basidia bi-trifurcata, ramulis 15-20  $\mu$ . longis.

14. *Rhabdospora Ulmi* Berl. et Roum. Rev. Myc. 1887, p. 164. 3554

*Hab.* in ligno decorticato emortuo Ulmi campestris, Coimbra Lusitaniæ. — Perithecia globuloso-conoidea, punctiformia, basi insculpta, obtuse papillata; sporulæ 30-36  $\approx$  3-4, bacillares, arcuatæ, plasmate 3-4-partitæ, hyalinæ.

**PHLEOSPORA** Wallr. — Syll. III, p. 577, X, p. 398.

1. *Phleospora Megarrhizæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 369. 3555

*Hab.* in foliis Megarrhizæ Oreganæ, Washington Amer. bor. (PIPER). — Maculæ virentes, dein albidæ purpureo cinctæ; perithecia epiphylla, discoidea, perforata, pallida, dein atra 150  $\mu$ . diam.; sporulæ 13-17  $\approx$  6-8, hyalinæ, 1-3-septatæ, obtusæ.

2. *Phleospora Laserpitii* Bres. F. Trid. II, p. 45, t. 150, f. 2. 3556

*Hab.* in foliis Laserpitii Gaudini in M. Peller agri Tridintini. — Maculæ amphigenæ, albæ, fusco-marginatæ; perithecia seu acervuli epiphylli, subglobosi, subcutaneo-erumpentes, albi; sporulæ guttato-1-3-septatæ, 40-70  $\approx$  2-2,5; basidia obclavulata 10-20  $\approx$  3-4.

3. *Phleospora Bresadolæ* Allesch. Verz. Süd-Bay. Pilze III, p. 60. 3557

*Hab.* in foliis languidis Asperulæ odoratæ in Bavaria sup. — Maculæ nullæ; perithecia v. acervuli subcutaneo-erumpentes; sporulæ 40-60  $\approx$  2,5-3,5, guttato-septulatæ, hyalinæ, curvatæ.

4. *Phleospora punctiformis* Sacc. sp. nov. — Hypophylla; maculis in- 3558

determinatis vix pallidis; peritheciis incompletis (a matrice obscurata formatis), innatis, atris, nucleo subgloboso 100-150  $\mu$ . diam. erumpente, fuscello; sporulis bacillaribus curvis v. flexuosis, utrinque obtusulis, 10-18  $\approx$  0,5-1, subhyalinis, nubiosis, basidiis filiformibus, fasciculatis, subhyalinis.

*Hab.* in foliis Quercus macrocarpæ, Oberlin Ohio Amer. bor. (Legit prof. F. D. KELSEY, comm. ELLIS).

**PHLYCTÆNA** Mont. et Desm. — Syll. III, p. 593, X, p. 400.

1. *Phlyctæna Andersonii* Ell. Descr. new Spec. Fung. in Journ. Mycol. 3559  
1893, VII, p. 277.

*Hab.* in caulibus emortuis Arabidis Holboelli et Drabæ sp., Montana Amer. bor. (ANDERSON). — Maculæ pallidæ, interdum rosæ; perithecia gregaria, subcutanea, conico-globosa, demum col-labentia; sporulæ fusoidæ, arcuatæ, continuæ, 12-15  $\approx$  2,5.



2. *Phlyctæna brunneola* (Berk.) Sacc. *Septoria brunneola* Berk. 3560  
Enum. Fungi Port. et in Bot. Zeit. 1854, p. 97.

*Hab.* in ramis emortuis Erythrinx Cristæ-galli in Lusitania. — Perithecia epidermide atratâ tecta; sporulæ filiformes, sursum curvatæ; basidia dimidio breviora, recta.

3. *Phlyctæna Magnusiana* (Allesch.) Bres. in All. Süd-Bay. Pilz. III, 3561  
p. 62, *Septoria* Allesch. in litt.

*Hab.* in foliis languidis. Apii graveolentis in hortis München et Elbach Bavarix sup. — Perithecia subglobosa, atra, amphigena, incompleta, 120-130  $\mu$ . diam., poro 30-40  $\mu$ . lato; sporulæ 20-45-1,5-2, guttatæ, spurie 2 3-septatæ, subsinuosæ, hyalinæ.

4. *Phlyctæna Ipomææ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 369. 3562

*Hab.* in calice Ipomææ panduratæ, Nuttallburg Virg. occid. (NUTTALL). — Perithecia 75-80  $\mu$ . diam., epidermide leniter elevata atratâ tecta; sporulæ 15-20  $\times$  1,2, sursum curvatæ, hyalinæ.

5. *Phlyctæna tecta* (Schw.) Cooke Grev. XX, p. 80, *Sphæria tecta* 3563  
Schw. Amer. bor. 1731 — Syll. II, p. 428. — Sporulæ filiformes, hamatæ, 25-30  $\mu$ . longæ. (In caulibus herbarum majorum).

#### CORNULARIA Karst. — Syll. III, p. 598, X, p. 402.

1. *Cornularia pyramidalis* (Schw.) Starb. Stud. p. 93, f. 70, *Sphæria* 3564  
Schw. — Syll. II, 435. — Perithecia 250  $\mu$ . alt. 150  $\mu$ . lat.; sporulæ 80-100  $\mu$ . long. deorsum 7, sursum 3  $\mu$ . crass. (In pag. inf. foliorum speciei non indicatæ).

#### MICROPERA Lév. — Syll. III, p. 604, X, p. 404

1. *Micropera Nemopanthis* Peck 46 Rep. p. 31. 3565

*Hab.* in ramis emortuis *Nemopanthis canadensis*, Karner Amer. bor. — Perithecia dense cæspitosa, minuta, nigra, madore dehiscentia et nucleum albidum revelantia; sporulæ 40-60  $\mu$ . long. subfiliformes, curvæ; basidia breviora.

2. *Micropera Fraxini* E. et E. New Sp. north Am. Fung. in Proceed. 3566  
Acad. S. N. Philad. 1893, p. 165.

*Hab.* in ramis corticatis emortuis *Fraxini americanæ*, Canada Amer. bor. (DEARNESS). — Perithecia seu cellulæ periphericæ, minutæ, stromate olivaceo, subtuberculiformi, erumpenti immersæ, apice prominulo; sporulæ hyalinæ, curvæ, nucleatæ, 25  $\approx$  6; basidia 15-20  $\approx$  3.

3. *Micropera Abietis* Rostr. Myk. Meddel. V, p. 216.

*Hab.* in cortice *Abietis pectinatæ* in silvis Seelandix. — 3567

*Perithecia hysteriiformia*, fusca, dense gregaria; sporulæ fusoideæ, semicirculari-arcuatæ, pluriguttatæ, continuæ v. rarius 1-septatæ 30-40  $\approx$  4-5, hyalinæ.

*Fam. 2. Nectrioidæ Sacc.*

*Sect. 1. Hyalosporæ.*

**ZYTHIA** Er. — Syll. III, p. 614, X, p. 404.

1. *Zythia boleticola* E. et Ev. New Fung. in Proceed. Acad. N. Sc. 3568 Philad. 457.

*Hab.* in Paxillo (Boletino) poroso, Newark Delaware Amer. bor. (COMMONS). — *Perithecia pustuliformia*, 200  $\mu$ . diam., flavido-carnea, dein succinea; sporulæ 5-15  $\approx$  4-5, hyalinæ, oblongæ v. ellipsoideo-oblongæ.

2. *Zythia bicolor* (B. et Br.) Cooke et Mass. Grev. XX, pag. 106, 3569  
*Ophiotheca bicolor* Berk. et Br. in Herb. — Subsuperficialis, rufo-aurantiaca; peritheciis subglobosis, fragilibus levibus; sporulis ellipticis, minutis, continuis, hyalinis, 3  $\approx$  1.5.

*Hab.* in fructibus *Nephelii lappacei*, Ceylon (THWAITES).

**SPHÆRONÆMELLA** Karst. — Syll. III, p. 617, X, p. 407.

1. *Sphæronæmella Coriariæ* Pat. Bull. Boiss. 1895, p. 73. 3570

*Hab.* in ramulis *Coriariæ thymifoliæ*, Pululahua Æquatoriae (LAGERHEIM). — *Perithecia erumpentia*, piriformia, longicollia, aurantiaca, basi atra, 3-4 mm. long.; sporulæ 3  $\approx$  1, ovoideæ, hyalinæ, in basidiis ramosis, septatis 20-30  $\mu$ . altis, acro-pleurogenæ, demum in globulum expulsæ.

**ASCHERSONIA** Mont. — Syll. III, p. 619, X, p. 408.

1. *Aschersonia disciformis* Pat. Bull. Soc. myc. 1892, p. 136, t. XI, 3571 fig. VII.

*Hab.* in foliis *Cestri*, Puente de Chimbo Æquatoriae. — Stromata viridia, truncata, penta-octogona, 1-2 mm. diam.; perithecia 5-6, disco immersa, fusca; sporulæ 15-18  $\approx$  2-3, fusoideæ, medio spurie septatæ, hyalinæ.

**HYSTEROMYXA** Sacc. et Ellis — Syll. III, p. 622.

1. *Hysteromyxa corticola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 369. 3572

*Hab.* in cortice interiore *Populi moniliferæ*, Kansas Amer.

Sphærospideæ, Leptostromaceæ, Hyalosporæ, Leptothyrium. 553  
bor. (BARTHOLOMEW). — Perithecia erumpenti-superficialia, membranacea, flavido-brunnea, pustulata, dein collabescendo concava, obscurior, centro subcarnea, 0,2-0,3 mm. diam.; sporulæ globosæ, 6-8  $\mu$ . diam., flavido-roseolæ.

## Sect. 2. Didymosporæ.

**PSEUDODIPLODIA** Karst. — Syll. III, p. 621, X, p. 409.

1. **Pseudodiplodia atrofusca** (Schw.) Starb. Stud. p. 94, f. 73, *Sphæ-* 3573  
*ria* Schw. — Syll. II, p. 391. — Perithecia 150-250  $\mu$ . diam.; sporulæ 10-17  $\approx$  5-10, fuscæ, 1-septatæ, constrictulæ, 2-guttatæ. (In ramis Staphyleæ trifoliatæ).

## Sect. 3. Phragmosporæ.

**PSEUDOSTICTIS** Fautr. Rev. Myc. 1892, pag. 119 (Etym. *pseudes* falsus et *Stictis*). — Perithecia seu cupulæ immersæ, epidermide laciniata cinctæ, pallide v. læte coloratæ, ceraceæ. Sporulæ oblongo-teretiusculæ, 2-pluriseptatæ, hyalinæ. — E tribu *Patellinearum*.

1. **Pseudostictis silvestris** Fautr. l. c. 3574

*Hab.* in caulibus siccis Pastinacæ sativæ var. *silvestris*, Charny, Côte-d'Or Galliæ. — Perithecia (cupulæ) sordide flava, epidermide 3-5-laciniata cincta, subelliptica; sporulæ 16-22  $\times$  5-6, plasmate 4-partito dein 3-septatæ.

2. **Pseudostictis Filicis** Faut. et Lam. Rev. Myc. 1894, p. 76, t. CL, 3575  
f. 2. — Peritheciis (cupulis) flavidis, sparsis, minutis, circulariter ex epidermide emergentibus, non expansis; ascis cylindraceis 45-50  $\approx$  10; sporulis hyalinis, obtusis, 3-septatis, medio valde constrictis, 18-20  $\approx$  4.

*Hab.* ad stipites siccos Aspidii Filicis-maris, Côte-d'Or Galliæ.

## Fam. 3. Leptostromaceæ Sacc.

### Sect. 1. Hyalosporæ.

1. *Eu-Leptothyrium*. Sporulæ muticæ.

**LEPTOTHYRIUM** Kunze et S. — Syll. III, p. 626, X, p. 412.

1. **Leptothyrium maculiforme** Fautr. Rev. Myc. 1892, p. 171. 3576

*Hab.* in foliis Aceris Pseudoplatani, Côte d'Or Galliæ.

- Perithecia 60-100  $\mu$ . diam., adnata, radiatim cellulosa, epiphylla; sporulæ cylindraceæ, medio angustatæ, 2-guttatæ, 4-5  $\approx$  1.
2. **Leptothyrium fixum** Sacc. Flor. myc. lusit. p. 20. — Peritheciis 3577  
laxe gregariis, amphigenis lenticularibus, basi innatis, hinc non  
secedentibus,  $\frac{1}{3}$ - $\frac{1}{2}$  mm. diam., nigris, nitidulis, obsolete rimosis;  
sporulis copiosissimis, allantoides, 6  $\approx$  1, hyalinis.
- Hab.* in foliis Eucalypti globuli, Zombaria et cerca de  
S. Bento Lusitaniae. — Peritheciis majusculis, fixis a generis typo  
recedit.
3. **Leptothyrium Hederæ** (Moug.) Starb. Stud. p. 96, *Sphaeria* (Do- 3578  
thidea) *Hederæ* Moug. — Syll. II, pag. 436. — Perithecia 50-90  
 $\mu$ . diam.; sporulæ 2-2.5  $\approx$  0.5-1. (In foliis vivis *Hederæ*, in Gallia).  
— *Sphaeria Corni-Sueciæ* Fr., *Phoma* Sacc. Syll. III, p. 86 est  
varietas *Leptothyrii vulgaris* teste Starb. l. c. — *Sphaeria* (Depazea)  
*Lonicerarum* Desm. Pl. crypt. n. 360 (in Herb. Brux.) videtur  
nonnisi *Leptothyrium Periclymeni* immaturum.
4. **Leptothyrium ?Juglandis** Rabenh. in Massalongo Nuova Contr. 3579  
Micol. Veron. p. 47.

*Hab.* in foliis Juglandis regiæ in agro Veron Italiæ bor.  
— Maculæ nullæ; perithecia dimidiata, spuria h. e. ab epidermide  
atrata formata, punctiformia; sporulæ 7-10  $\approx$  1-1.5, hyalinæ.

5. **Leptothyrium Castaneæ** (Spr.) Sacc. Syll. III, p. 628. — var. **Nu-** 3580  
**cifoliæ** Mass. Nuov. Contrib. Micol. Veron. p. 47: a typo differt  
peritheciis vix nitidis; sporulis paullo minoribus (3-4  $\approx$  1).

*Hab.* in foliis dejectis Juglandis regiæ, Tregnago Veron.

6. **Leptothyrium Carpini** Roum. et Fautr. Rev. Myc. 1892, p. 172. 3581

*Hab.* in foliis Carpini Betuli, Côte-d'Or Galliae. — Ma-  
culæ amphigenæ, rufæ; perithecia hypophylla, applanata, adnata,  
sub vitro cærulescentia; sporulæ 8-10  $\approx$  1, utrinque 1-guttatæ.

7. **Leptothyrium palustræ** Fautr. Rev. Myc. 1895, p. 70. 3582

*Hab.* in caule et capsulis Pedicularis palustris, Côte-  
d'Or Galliae. — Perithecia majuscula, adnata, cellulis radiantibus;  
sporulæ 4-5  $\approx$  1.5-2, 2-guttulatæ, hyalinæ.

## II. *Tracylla* Sacc. Sporulæ utrinque monochætæ.

8. **Leptothyrium Spartinae** Peck 47 Rep. p. 25.

*Hab.* in culmis Spartinae junceæ, Biloxi Mississipi Amer. 3583  
bor. (S. M. Tracy). — Perithecia depressa, minuta, rugulosa, ni-  
gra, secedentia; sporulæ 12-15  $\approx$  5-7, hyalinæ, 1-nucleatæ, utrin-  
que setulâ sporulam subsuperante auctæ.

**MELASMA** Lév. — Syll. III, p. 637, X, p. 419.

1. **Melasmia Tecomæ** Cooke et Mass. in Grev. vol. 22, p. 37. 3584

*Hab.* in foliis vivis Tecomæ jasminoidis, Queensland Australiæ (BAILEY). — Perithecia (stromata) amphigena, superficialia, rugulosa, nigra, 1-2 mm. diam., disco brunneo; sporulæ continuæ, hyalinæ, 16  $\approx$  2, fusoidææ.

2. **Melasmia Roupalæ** Allesch. in P. Henn. Fung. goyaz. p. 114. 3585

*Hab.* in foliis vivis Roupalæ sp. Goyaz Brasiliæ (ULE). — Maculæ nullæ; stromata hemisphærica, inæqualia, epiphylla, atro-nitida; sporulæ 12-16  $\approx$  3-4, continuæ, hyalinæ; basidia fasciculata, 30-40  $\approx$  2-2,5, subhyalina.

3. **Melasmia ribicola** Cooke et Mass. Grev. XX, p. 106. — Maculis 3586  
epiphyllis, pallidis, orbicularibus; stromatibus effusis, atris 1 cm. diam.; rugulosis; cellulis immersis; sporulis cylindricis, rectis, tenuibus, hyalinis, 3  $\approx$  0-5.

*Hab.* in foliis Ribis spec. in Bolivia.

**LEPTOSTROMA** Fr. — Syll. III, p. 639, X, p. 420.

1. **Leptostroma avellanense** Tognini Contr. Micol. Tosc. p. 14. 3587

*Hab.* in sarmentis Rubi, Vellano Etruriæ — Perithecia superficialia, oblonga, rima longitudinali dehiscencia, atra, luce transmissa olivaceo-virentia; sporulæ 9-11  $\approx$  3,5-4,5, ovoideo-oblongæ, hyalinæ; basidia obsoleta.

2. **Leptostroma præmorsum** Brun. Sphærops. nouv. in Bull. Soc. Bot. 3588  
Fr. 1893, p. 225.

*Hab.* in ramis emortuis Rubi cæsi, socio *Lophiotremate præmorsum*, Saintes Galliæ. — Perithecia quasi *Lophiotrematis præmorsi*; sporulæ ovoideo-oblongæ, hyalinæ, 2-guttatæ, 6-7  $\approx$  2-2,5.

3. **Leptostroma Chærophylli** Brun. Champ. Charente-Infér. 1892, p. 37. 3589  
— Peritheciis elongato-linearibus, lanceolatis, rima angustissima atra; sporulis fusiformibus, hyalinis, 2-guttulatis, 8  $\approx$  3.

*Hab.* ad caules emortuos Chærophylli temuli, Saintes Galliæ.

4. **Leptostroma inulicolum** Brun. Champ. Charente-Infér. 1892, p. 37. 3590  
— Peritheciis *Lophiotrematis vagabundi* Sacc.; sporulis oblongis biguttulatis, hyalinis, continuis, 7-8  $\approx$  3.

*Hab.* ad caules emortuos Inulæ crithmoidis, socio *Lophiotremate vagabundo*, cujus fortasse status inferior, Saintes Galliæ.

5. **Leptostroma herbarum** (Fr.) Link — Syll. III, p. 645. — var. 3591

**Rumicis** Brun. Glan. Mycol. ser. 3, Herbor. 1892-93, p. 7. — Sporulis oblongis, extremitatibus rotundatis, hyalinis,  $7-10 \times 3-4$ .

*Hab.* ad caules emortuos Rumicis, Fouras Galliæ.

6. **Leptostroma Tami** Lamb. et Fautr. Rev. Myc. 1892, p. 172. 3592

*Hab.* in caulibus siccis Tami communis, Côte-d'Or Galliæ.

— Maculæ brunneæ; perithecia oblonga, hysteroidea, aperta; sporulæ  $8-10 \times 3$ , biguttatæ; basidia  $20-25 \times 2$ .

7. **Leptostroma Henningsii** Allesch. in P. Henn. Myk. Not. I (1895), p. 2. 3593

*Hab.* in foliis Eriophori vaginati in Grunewald Germaniæ. — Perithecia scutiformia, orbicularia v. ovata, atro-nitidula, dein rugulosa; sporulæ bacillares, obtusæ, rectæ, hyalinæ,  $5-8 \times 1$ ; basidia  $16-20 \times 1$ .

8. **Leptostroma donacinum** Sacc. — Syll. III, p. 643. — \***L. bambu-** 3594

**sellum** Sacc. Fl. mycol. Lusit. p. 20. — Peritheciis dense gregaris, undique versis (nec seriatis) oblongis, nitide atris, rima percursoris, ambitu fimbriatulis; sporulis tereti-oblongis, utrinque obtusulis, rectis,  $4-5 \times 1,5$ , obsolete guttulatæ, hyalinis.

*Hab.* in culmis emortuis Bambusæ arundinacæ et B. mitis cerca de S. Bento et in Horto bot. Coimbra Lusitanicæ.

9. **Leptostroma Avenæ** Brun. Fl. Myc. Saint. et Four. in Bull. Soc. 3595  
S. N. de l'Ovest, p. 220.

*Hab.* in foliis siccis Avenæ sativæ, Saintes Galliæ. — Perithecia linearia, parallela, innata, rima perangusta; sporulæ  $7 \times 3$ , hyalinæ, 2-guttatæ.

10. **Leptostroma Calamariæ** Kunze in sched. [in Herb. Bruxell.] Sacc. 3596

Fung. herb. Bruxell. n. 49. — Specimina omnino sterilia, forte statum juvenilem *Phyllachoræ* cujusdam sistunt.

*Hab.* in foliis Glumacæ cujusdam, Surinam (WEIGELT).

**LABRELLA** Fr. — Syll. III, p. 647, X, p. 421.

1. **Labrella tecta** (Starb.) Stud. pag. 96, f. 75, *Sphæria* Schw. — 3597

Syll. II, p. 428. — Perithecia  $0,5 \mu$  lat.; sporulæ  $5-10 \times 2-4$ . (In caulibus plantarum majorum).

2. **Labrella piricola** Bres. et Sacc. in Sydow Mycoth. march. Cent. 3598

XLI, 1894, n. 4080. — Maculis nullis; peritheciis amphigenis, innato-applanatis, subrotundatis, atris, usque ad  $\frac{1}{4}$  mm. latis, in series reticulum efformantes dispositis et totum folium occupantibus; sporulis minimis, hyalinis, subellipticis  $3-4 \times 2$ ; basidiis subcylindræis,  $20-25 \times 2-3$ .

*Hab.* in foliis Piri Mali in Brandenburg Germaniæ.

## Sect. 2. Didymosporæ.

LEPTOTHYRELLA Sacc. — Syll. X, p. 426.

1. *Leptothyrella Dearnessii* (E. et E.) Sacc. *Asterinula Dearnessii* 3599  
E. et E. New sp. North Amer. Fung. in Proceed. Acad. S. N.  
Philad. 1893, p. 159.

*Hab.* in foliis *Gerardiæ quercifoliæ*, London Canada (DEARNESS). — Perithecia 0,5–0,7 mm. diam., disciformia; sporulæ 1-septatæ, olivaceæ, 9–12  $\approx$  3.

## Sect. 3. Phragmosporæ.

DISCOSIA Lib. — Syll. III, p. 653, X, p. 426.

1. *Discosia placentula* (Schw.) Ellis. Pyren. Schwein. p. 10, *Sphaeria* 3600  
Schw. in Herb.

*Hab.* in foliis dejectis *Tiliæ* (?), Bethlehem Amer. bor. — Perithecia umbilicato-depressa, centro papillata, subinde plicatula, 0,5 mm. diam.; sporulæ 10–13  $\approx$  1,5–2, curvulæ, leniter 4-nucleatæ, hyalinæ.

2. *Discosia magna* Peck 47 Rep. p. 21. 3601

*Hab.* in samaris dejectis *Fraxini americanæ*, Elizabethtown Amer. bor. — Perithecia suborbicularia, magna, 350–600  $\mu$ . diam., nigra, opaca, vix rugulosa, ostiolo prædita; sporulæ subfusoidæ, curvulæ, obsolete 2–3-septatæ, 12–20  $\mu$ . longæ, utrinque setulæ 10–13  $\mu$ . longa auctæ.

3. *Discosia Platani* Otth Bern. Mittheil. 1868, p. 61. 3602

*Hab.* in foliis dejectis *Platani*, Bern Helvetiæ. — Perithecia minuta, superficialia, atro-nitida; sporulæ 14–18  $\approx$  2,5, obtusæ, utrinque setigeræ, vix coloratæ, obsolete septatæ.

4. *Discosia aquatica* Fautr. Rev. Myc. 1893, p. 17. 3603

*Hab.* in *Sparganio erecto*, Côte-d'Or Galliæ. — Perithecia sparsa, adnata, nigra, poro medio pertusa, fragilia; sporulæ 1–3-septatæ, 20  $\approx$  2, cylindraceæ, hyalinæ, utrinque seta 10  $\approx$  0,2 auctæ.

## Sect. 4. Scolecosporeæ.

MELOPHIA Sacc. — Syll. III, p. 658, X, 428.

1. *Melophia Leptospermi* Cooke Grev. XX, p. 65. — Ita dicenda est 3604

*M. phyllachoroidea* Cooke, exstante specie homonyma anteriore  
cl. SPGAZZINI.

**LEPTOSTROMELLA** Sacc. — Syll. III, p. 659, X, p. 430.

1. *Leptostromella caricina* Brun. Fl. Myc. Saint. et Four. in Bull. 3605  
Soc. S. N. de l'Ovest p. 220.

*Hab.* in foliis siccis *Caricis muricatae*, *Saintes Galliae*. —  
*Perithecia* erumpentia, lanceolata, nigra, anguste rimosa; sporulæ  
pluriguttulatæ, 50-65  $\approx$  3-3,5 hyalinæ.

2. *Leptostromella Phragmitis* Brun. Fl. myc. Saint. et Four. in Bull. 3606  
Soc. S. N. de l'Ovest p. 220.

*Hab.* in foliis siccis *Phragmitis communis*, *Fouras Gal-*  
*liæ*. — *Perithecia* lineari-oblonga, parallele seriata, nigra, anguste  
rimosa; sporulæ continuæ, guttulatæ, hyalinæ, 20-22  $\approx$  3-3,5.

3. *Leptostromella cladopoda* Sacc. Grev. XXI, p. 67. — *Peritheciis* 3607  
laxe seriatis, subsuperficialibus, elongatis, convexulis, opace nigris,  
0,5-0,7 mm. long., 0,2 mm. lat., rima tenui percursis; sporulis an-  
guste fusoides, rectis curvulisve, 20-22  $\approx$  3, nubilosis, hyalinis;  
basidiis bacillaribus, 15-20  $\approx$  2-4, plerumque ex ima basi furcatis,  
raro varie ramosis, dilute melleis, coacervatis, subfuliginis.

*Hab.* in foliis emortuis *Typhæ angustifoliæ*, *Saintes (BRU-*  
*NAUD)*. — *A Lept. hysteroide*  $\beta$ . *graminicola* differt præcipue  
sporulis paullo crassioribus et basidiis distincte furcato-ramosis,  
coloratis; a *Lept. nitida* (cujus sporulæ sunt ignotæ) recedit pe-  
ritheciis opacis nec nitidis.

4. *Leptostromella? tenuissima* (Schw.) Starb. Stud. pag. 96, f. 77, 3608  
*Sphæria* Schw. — Syll. II, pag. 429. — *Perithecia* 100-150  $\mu$ .  
diam.; sporulæ (an asci immaturi?) 20-25  $\approx$  2-3. (In caulibus *Po-*  
*lygonati latifolii*).

#### Fam. 4. Excipulaceæ Sacc.

##### Sect. 1. Hyalosporæ.

**EXCIPULA** Fr. — Syll. III, p. 665, X, p. 432.

1. *Excipula canadensis* E. et E. New sp. North Am. Fung. in Pro- 3609  
ceed. Acad. S. N. Philad. 1893, p. 165.

*Hab.* in ligno dealbato *Ulmi*, *London Canada (DEARNESS)*. —  
*Perithecia* erumpenti-superficialia, tenera, nigra, 0,3-0,5 mm. diam.,



globosa dein late aperta, cupulata, pilosula; sporulæ naviculares 5-6  $\approx$  2,5, olivaceæ; basidia 12  $\approx$  2,5.

2. **Excipula Zopfii** Allesch. Hedwigia 1894, pag. 125. — Peritheciis 3610  
innato-erumpentibus, primum subsphæroideis, dein ellipticis v. ob-  
longis, excipuliformibus, late apertis, ore integro, glabris, nitido-  
atris; sporulis oblongo-cylindraceis v. subovoideis, utrinque obtu-  
sis, continuis, eguttulatis, hyalinis, 10-15  $\approx$  3,5-5.

*Hab.* in caulibus emortuis *Cynanchi Vincetoxici*, in Borussia.

3. **Excipula Diapensiæ** Rostr. Oest. in Grönl. Svampe p. 29. 3611

*Hab.* in foliis *Diapensiæ lapponicæ*, Danmarks Groenlan-  
diæ. — Perithecia minutissima, hypophylla, innato-excipuliformia;  
sporulæ cylindraceæ, rectæ, 12-14  $\approx$  2,5; basidia brevia.

**DOTHICHIZA** Lib. — Syll. III, p. 671, X, p. 432.

1. **Dothichiza Cassandræ** Ell. et Ev. Proc. Acad. Phil. 1894, p. 370. 3612

*Hab.* in ramis emortuis *Cassandræ calyculata*, Michigan  
Amer. bor. (JOHNSON). — Perithecia erumpentia, ovato-globosa, dein  
inæqualiter aperta, subcupulata, 0,5 mm. diam.; sporulæ fusioideæ,  
hyalinæ, rectæ, 10-14  $\approx$  2-2,5.

**CATINULA** Lév. — Syll. III, p. 673.

1. **Catinula saligna** E. et E. New sp. North Amer. Fung. in Proceed. 3613  
Acad. S. N. Philad. 1893, p. 166.

*Hab.* in ramis emortuis *Salicis*, London Canada (DEARNESS).  
— Perithecia erumpentia, breve obconica, substipitata, 1 mm. alta,  
late aperta atro-nitidula; sporulæ 15-20  $\approx$  6-7, continuæ, hyalinæ;  
basidia 15-20  $\approx$  3.

**AMEROSPORIUM** Speg. — Syll. III, p. 680, X, p. 436.

1. **Amerosporium aterrimum** Karst. Hedw. 1892, p. 298. 3614

*Hab.* ad sarmenta putrescentia *Rubi* in horto Mustiala Fennicæ. — Perithecia superficialia, turbinata, disco livido, undique pilis rigidis, atris, continuis, 50-150  $\approx$  6, aucta; sporulæ 15-18  $\approx$  1,5-2, cylindricæ, acutæ, 5-6-guttatæ; basidia tenuissima. — **Amerosporium hysteriiforme** Pass. in litt. et Sacc. Syll. X, p. 437, *Excipula hysteriiformis* (De Not.), Pass. in Erb. critt. ital. I, n. 1478, ob sporulas 18  $\approx$  3 (senio muticas) et locum in lignis mihi videtur status senex *Dinem. hispiduli*.

**DINEMASPORIUM** Lév. — Syll. III, p. 683, t. X, p. 438.

1. *Dinemasporium gubulicolum* Rostr. Till. Grönl. Svamp. p. 627. 3615  
*Hab.* in galbulis Juniperi, Tasiusak Groenlandiæ. — Perithecia erumpentia; sporulæ 9-10 × 2, curvulæ, cylindraceæ, utrinque v. uno apice seta obliqua 10-20 × 1 auctæ.
2. *Dinemasporium decipiens* (De Not.) Sacc. Teste Starb. Stud. p. 98 3616  
 ad hoc spectat *Sphæria nigrila* Schw. Syll. II, p. 430.
3. *Dinemasporium strigosum* (Fr. pp. Lib.) Sacc. Syll. III, pag. 683, 3617  
 Grev. XXI, p. 68. Sec. ill. de Not. in Mem. Accad. Tor. X, p. 168, hæc species est *Excipula strigosa* β. *hysteriiformis* Fr. S. M. II, pag. 103 (= *Vermicularia strigosa* Lib., *Excipula strigosa*, Corda = *Exc. hysteriiformis* De Not. l. c.), dum *Dinemasporium graminum* (Lib.) Lév. Sacc. Syll. l. c. est typus *Excipulæ strigosæ* Fr. l. c. (= *Vermicularia graminum* Lib. = *Exc. graminum* Corda = *Exc. strigosa* D. Not. l. c.).

## Sect. 2. Didymosporæ.

**DISCELLA** B. et Br. — Syll. III, p. 687, X, p. 440.

1. *Discella Ariæ* Oud. Contrib. Fl. myc. Pays-Bas. XV, pag. 17. — 3618  
 Peritheciis applanatis, dimidiatis, sparsis, atris, primitus subepidermicis dein erumpentibus; sporulis lanceolatis, medio 1-septatis, hyalinis 11-16 × 3.

*Hab.* ad ramulos Sorbi Ariæ, in Nederlandia.

2. *Discella Centaureæ* Roll. et Fautr. Rev. Mycol. 1894, pag. 72, 3619  
 tab. CLXI, f. 1. — Peritheciis minutis 200 μ. diam., discoideis v. ovato-elongatis, disco incolori, margine membranaceo, proeminente, fuliginis; sporulis oblongis, apice rotundatis, basi attenuatis, sæpe granulosis, 1-septatis, 8-12 × 4; basidiis filiformibus, hyalinis, simplicibus, brevibus 4-5 μ. long.

*Hab.* ad caules Centaureæ amaræ, Côte-d'Or in Gallia.

## Sect. 3. Phragmosporæ.

**EXCIPULINA** Sacc. — Syll. III, p. 688, X, p. 441.

1. *Excipulina Hicksiana* E. et E. New sp. North Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 166. 3620

*Hab.* in ligno decorticato dealbato, Michigan Amer. bor. (Hicks).

— Perithecia globoso-oblonga, hysteroidea, 0,3-0,7 mm. diam.,

Sphærospideæ, Excipulaceæ, Phragmosporæ, Excipularia. 561  
tenui-membranacea, demum late aperta, disco pallido; sporulæ hya-  
linæ, obtusæ, 2-3-septatæ, 8-15  $\approx$  3-4, rectæ v. curvulæ.

**EXCIPULARIA** Sacc. — Syll. III, p. 688, X, p. 441.

1. **Excipularia lignicola** Karst. et Malbr. in Le Bret. et Niel Champ. 3621  
Norm. V Liste p. 160.

*Hab.* in ligno vetusto pr. Rouen Galliæ. — Perithecia super-  
ficialia, cupulata, late aperta, setulosa, atra; sporulæ fusoides-ba-  
cillares, curvulæ, 3-septatæ, 15-17  $\approx$  1-2.

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## MELANCONIEÆ BERK. em. Sacc.

Syll. III, p. 696, X, p. 446.

### Sect. 1. Hyalosporæ.

**HAINESIA** Ell. et Sacc. — Syll. III, p. 698, X, p. 446.

1. *Hainesia borealis* E. et E. New sp. North Am. Fung. in Proceed. 3622  
Acad. S. N. Philad. 1893, p. 166.

*Hab.* in foliis *Galii borealis*, British Columbia (MACOUN).  
Acervuli 175-200  $\mu$ . diam., carnei, hypophylli, erumpenti-promi-  
nuli; conidia allantoidea, hyalina, curvula, 5-6  $\approx$  1; basidia 12-  
15  $\approx$  1-1,5.

**GLÆOSPORIUM** Desm. et Mont. — Syll. III, p. 699, X, p. 446.

#### 1. In *Dicotyledoneis*.

1. *Glæosporium Sanguinariæ* Ell. et Ev. Proc. Acad. Phil. 1894, 3623  
p. 371.

*Hab.* in foliis *Sanguinariæ canadensis*, Nuttallburg Vir-  
giniæ (NUTTALL). — Maculæ flavæ, oblongæ v. irregulares; acer-  
vuli epiphylli, flavi, perexigui; conidia 8-15  $\approx$  3-3,5, oblonga, sæpe  
curvula.

2. *Glæosporium albo-ferrugineum* Ell. et Ev. Proc. Acad. Phil. 1894, 3624  
p. 371.

*Hab.* in foliis *Aceris saccharini*, Illinois Amer. bor. (MAC  
DONALD). — Maculæ rubro-brunnæ, angulares; acervuli 100-150  
 $\mu$ . diam., hypophylli, demum atrii; conidia oblonga, 12-14  $\approx$  3-3,5.

3. *Glæosporium decolorans* Ell. et Ev. Journ. Myc. 1892, VII, p. 133. 3625

*Hab.* in foliis *Aceris rubri*, Canada (DEARNESS). — Maculæ  
amplæ, brunneæ; acervuli copiosi, hypophylli; conidia 5-8  $\approx$  2,5-3,  
hyalina.

4. *Glæosporium oblongisporum* Ell. et Dear. New Spec. Canad. Fung. 3626  
in Canad. Rec. Sc. 1893, p. 270.

*Hab.* in foliis vivis *Aceris saccharini*, Canada, sociâ *Sep-  
torii Belonidio*. — Maculæ suborbiculares pallide brunneæ; acer-

vuli amphigeni; conidia 16-18  $\approx$  2, continua, demum in pulveris albi formam eructata.

5. *Glæosporium apocryptum* E. et E. Journ. of Mycol. IV, 52. — 3627  
Syll. X, p. 451. — var. *ramicolum* E. et E. Proceed. Acad. N. Sc. Philad. 1893, p. 459.

*Hab.* in ramulis emortuis Negundinis aceroidis, Delaware (COMMONS). — Acervuli epidermide atrata tecti, pustuliformes; conidia oblonga, obtusa, 12-15  $\approx$  4-6.

6. *Glæosporium Alphonitiae* Cooke et Mass. in Grev. Vol. XXII, 3628  
p. 37.

*Hab.* in foliis emortuis Alphonitiae excelsae, Brisbane Queensland Australiæ (BAILEY). — Acervuli epiphylli, minuti, erumpentes, atri; conidia teretiuscula, 18-22  $\approx$  4, hyalina, 2-nucleata, subrecta.

7. *Glæosporium Vincetoxici* Fautr. — Syll. X, pag. 460. — Species 3629  
hæc, cum serius inventa sit in ramis Vitis, Rubi, Humuli, Althææ, cl. Fautrey in Rev. myc. 1892, pag. 97 nomine novo *Gl. allantospori* salutatur additque in Althæa conidia tantum 16-22  $\approx$  3 metiri et *Excipulam Phaseoli* Karst. in idem *Glæosporium* transire.

8. *Glæosporium ribicolum* E. et E. New sp. North Am. Fung. in 3630  
Proceed. Acad. S. N. Philad. 1893, p. 167.

*Hab.* in fructibus Ribis, Wilmington, Delaware (COMMONS). — Acervuli minuti, pallidi, mox erumpentes in strata pallide aurantia; conidia oblonga, 7-12  $\approx$  3-3,5; basidia 20  $\mu$ . longa.

9. *Glæosporium americanum* E. et E. New sp. North Am. Fung. in 3631  
Proceed. Acad. S. N. Philad. 1893, p. 167.

*Hab.* in foliis Viciæ americanæ, Wisconsin Amer. bor. (DAVIS). — Maculæ amphigenæ, virentes; acervuli tecti 80  $\mu$ . diam., pallide rosei, demum erumpentes; conidia 12-16  $\approx$  3-3,5, obtusa; basidia subæquilonga.

10. *Glæosporium Davisii* E. et E. New sp. North Am. Fung. in Pro- 3632  
ceed. Acad. S. N. Philad. 1893, p. 167.

*Hab.* in leguminibus Viciæ americanæ, Wisconsin Amer. bor. (DAVIS). — Acervuli innato-erumpentes, pallide rosei; conidia oblongo-ellipsoidea, hyalina, 5-8  $\approx$  3-4.

11. *Glæosporium Comari* Allesch. Verz. Süd-Bay Pilze III, p. 70. 3633

*Hab.* in foliis languidis Comari palustris, Oberammergau Baviaræ. — Maculæ e rubenti fuscæ; acervuli epiphylli, punctiformes, atri; conidia 20-24  $\approx$  3-4, teretia, 4-guttata, hyalina.

12. *Glæosporium pirinum* Pegl. Note Patol. veg. pag. 4, Contr. mic. 3634  
Avell. p. 26.  
*Hab.* in foliis Piri communis prope Avellino Ital. merid. — Maculæ rubro-cinctæ; acervuli 150-300  $\mu$ . diam., erumpentes, olivaceo-chlorini; conidia tereti-ovata,  $6 \approx 4$ , hyalina; basidia 20-25  $\approx 4$ , ex hyalino fumosa.
13. *Glæosporium serotinum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 371. 3635  
*Hab.* in foliis Pruni serotinæ, Smyrna, Delaware Amer. bor. (COMMONS). — Maculæ orbiculares, lateritæ; acervuli amphigeni, copiosi, carnei; conidia oblonga, recta, obtusa, 12-15  $\approx 4$ -5.
14. *Glæosporium Cercocarpi* E. et New West-Amer. Fung. p. 25, 3636  
in Erythea vol. II, 1894.  
*Hab.* in foliis Cercocarpi betulifolii, Pasadena Californiæ (MAC CLATCHIE). — Maculæ amphigenæ, suborbiculares, rubido-brunnæ, flavo-marginatæ; acervuli tecti, prominuli; conidia ellipsoidea, hyalina, 3  $\approx$  1.5.
15. *Glæosporium Qualeæ* Allesch. in P. Henn. Fung. goyaz. p. 115. 3637  
*Hab.* in foliis adhuc vivis Qualeæ, Goyaz Brasilæ (ULE). — Acervuli epiphylli, nigri, vertice inæqualiter fissi; conidia minutissima, ovoidea; basidia filiformia 20-30  $\approx 0.5$ -1.
16. *Glæosporium Bowmani* Ell. et Dear. New Spec. Canad. Fung. in 3638  
Canad. Rec. Sc. 1893, p. 270.  
*Hab.* in foliis Epilobii colorati, Ontario (BOWMAN). — Maculæ pallide brunneæ, obscure zonatæ; acervuli epiphylli, pustulati, 90-180  $\mu$ . diam.; conidia 5-6  $\approx 1.5$ -2, hyalina, 2-nucleata.
17. *Glæosporium allantoideum* Peck 45 Rep. p. 21. 3639  
*Hab.* in epicarpio Cucurbitæ Peponis, Lyndonville Amer. bor. (FAIRMAN). — Acervuli minuti, copiosi; conidia curvula, 12-20  $\mu$ . long., in globulos albidos concentricos eructata.
18. *Glæosporium phyllachoroides* E. et E. New West-Amer. Fung. 3640  
in Erythea p. 201.  
*Hab.* in foliis Artemisiæ vulgaris var. californiæ Pasadena Californiæ (MAC CLATCHIE). — Acervuli epiphylli, epidermide atrata tecti, phyllachoroidei; conidia 14-20  $\approx 2.5$ -5, continua, hyalina. — Var. *maculicolum* l. c.: acervuli similes, sed in macula brunnea siti.
19. *Glæosporium Pedicularis* Rostr. Øst. Grönl. Svampe p. 29. 3641  
*Hab.* in foliis vivis Pedicularis hirsutæ, Groenlandia, — Acervuli amphigeni, discoidei, cinereo-nigri, 0.5 mm. diam.; conidia 12-15  $\approx 3$ -4, hyalina, guttulata; subinde curvula.

20. *Glæosporium Catalpæ* Ell. et Ev. Journ. Myc. 1892, VII, p. 133. 3642

*Hab.* in foliis vivis *Catalpæ bignonioidis*, Wilmington Delaware Amer. bor. (COMMONS). — Maculæ rufo-brunneæ, centro pallidiores; acervuli minuti; conidia oblonga, hyalina, 2-nucleata 10-15  $\approx$  3-5, in globulos flavidos eructata.

21. *Glæosporium virgulatum* Atkinson Bull. 49 Cornell. Univ. Apic. 3643

1892, p. 314 cum icon. — Acervulis innato=erumpentibus, 100-150  $\mu$ . diam., demum (ob thalamium crassum, nigricans, subinde hemiperithecium fingentibus) atris; basidiis copiosis, crebris, simplicibus, hyalinis v. demum fuscellis; conidiis oblongis v. ellipsoideis, rectis v. curvulis basi sæpius acutulis, hyalinis, 10-20  $\approx$  5-7, guttatis v. granulosis.

*Hab.* in ramulis *Ligustri vulgaris*, quod vexat, Penn Jan Amer. bor. — Ramuli infecti brunneo-maculantur. Fungillus cultus in Agar-Agar colonias radiantes generavit, tunc cellulæ basidiophoræ in hypham longam producuntur conidiaque copiosa gignuntur: ita fungillus habitum fere mucedineum acquirit. — Species a *Glæosp. ligustrino* omnino diversa.

22. *Glæosporium Rhododendri* Br. et Cav. Fung. Paras. n. 198. — 3644

Maculis permagnis, irregularibus, arescentibus, zonatis; acervulis nigris, rugulosis, nitidis, concentricè dispositis, nigromarginatis; conidiis oblongis cylindræis rectis v. curvulis utrinque obtusis v. oblique truncatis, 15-20  $\approx$  4-5.

*Hab.* in foliis *Rhododendri pontici* v. aff. culti in horto bot. Pavia Ital. bor.

23. *Glæosporium officinale* Ell. et Ev. Proc. Acad. Phil. 1894, p. 370. 3645

*Hab.* in foliis *Sassafras officinalis*, Smyrna Delaware (COMMONS). — Maculæ atro-marginatæ, albidæ; acervuli amphigeni, erumpentes; conidia 8-15  $\approx$  4-5, ovata v. oblongo-clavulata.

24. *Glæosporium Saururi* Ell. et Dear. New Spec. Canad. Fung. in 3646  
Canad. Rec. Sc. 1893, p. 270.

*Hab.* in foliis vivis *Saururi cernui*, Canada. — Maculæ atro-brunneæ, suborbiculares; acervuli hypophylli, pallide brunnei, 50-180  $\mu$ . diam.; conidia binucleata, 10  $\approx$  3.

25. *Glæosporium Papayæ* P. Henn. Fung. goyaz. p. 115. 3647

*Hab.* in caulibus *Caricæ Papayæ* Goyaz Brasiliæ (ULE). — Acervuli rotundato-oblongi, atri dein vertice pallidi; conidia tetra-reti-subclavata, 11-14  $\approx$  5-6, ex hyalino flavidula.

26. *Glæosporium Caryæ* E. et E. New sp. North Am. Fung. in Pro- 3648  
ceed. Acad. S. N. Philad. 1893, p. 167.

*Hab.* in foliis Caryæ albæ, Canada (DEARNESS). — Maculæ amphigenæ, indefinitæ, brunneæ; acervuli hypophylli 80-150  $\mu$ . diam.; conidia oblonga, continua, hyalina, 7-10  $\approx$  1-1,5.

27. *Glœosporium nævioides* Romell et Sacc. Grev. XXI, p. 68, t. 184, 3649 f. 11. — Maculis irregularibus, conflundo ampliatis, griseo-isabellinis, indistincte obscurius marginatis; acervulis disciformibus, brunneo-nigricantibus, 125-180  $\mu$ . diam, erumpentibus, basi stromatica crassa, rufo-fulginea, perithecioides suffultis; conidiis ex ovato oblongis utrinque præcipue apice rotundatis, continuis intus granulosis, hyalinis, 30-35  $\approx$  10-12, basidio cylindræo breviori fultis.

*Hab.* in foliis languidis Populi tremulæ, pr. Stockholm Sueciæ (ROMELL).

28. *Glœosporium populinum* Peck 45 Rep. p. 20. 3650

*Hab.* in foliis vivis Populi grandidentatæ, Freeville Amer. bor. — Maculæ rufo-brunneæ; acervuli hypophylli, subconcentrici; conidia curvula, 25-40  $\approx$  3, in massulas rubentes eructata; basidia tenella.

29. *Glœosporium Tremuloidis* Ell. et Ev. Proc. Acad. Phil. 1894, 3651 p. 370.

*Hab.* in foliis Populi tremuloidis, Wisconsin Amer. bor. (DAVIS). — Maculæ amphigenæ, atro-brunneæ; acervuli innati, globosi, 75-85  $\mu$ . diam., erumpentes; conidia 10-13  $\times$  5,5-6,5, ellipsoidea.

30. *Glœosporium boreale* E. et E. in Proceed. Acad. N. Sc. Philad. 459. 3652

*Hab.* in foliis Salicis spec. Newfane Vt. Amer. bor. (GROUT). — Maculæ orbiculares, brunneæ; acervuli hypophylli, minuti; conidia tereti-clavata, hyalina, continua, 7-12  $\approx$  1,5-2, in cirros albidis-succineis eructata.

31. *Glœosporium Beckianum* Bäuml. Zur Pilzfl. Niederöst. VI, p. 100. 3653

*Hab.* in amentis capsulisque Salicis auritæ pr. Edlitzberg Austriæ inf. (BECK). — Acervuli crebri, dein confluentes; conidia 13-15  $\times$  4-6, utrinque acuta v. uno apice obtusula, hyalina, mox in strata carnea subgelatinosa capsulas obducentia protrusa; basidia 15-20  $\approx$  2, simplicia.

## II. In Monocotyledoneis.

32. *Glœosporium Nanoti* Prill. et Delacr. Bull. Soc. myc. 1894, p. 83. 3654

t. IV, fig. 6. — Maculis fulvis in caulibus rachidibusque foliorum late expansis; acervulis griseis, nigro-cinctis 0,5 mm. circ. diam.;



basidiis hyalinis, pluriseptatis, 70-100  $\times$  4-5; conidiis hyalinis, granulato-guttulatis, paulum arcuatis, irregularibus, cylindraceis v. utrinque attenuatis, interdum subpiriformibus, 15  $\approx$  5.

*Hab.* in calidariis, ad folia Caryotæ urentis in Gallia.

33. **Glæosporium Coccoes** Allesch. in P. Henn. Fung. goyaz. p. 115. 3655

*Hab.* in foliis languidis Coccoes, Goyaz Brasilæ (ULE). — Acervuli erumpentes, epiphylli, pulvinati, nigri; conidia 7-10  $\times$  2,5-3,5, hyalina; basidia 20-36  $\approx$  1.

34. **Glæosporium Allescheri** Bres. in All. Verz. Süd-Bay. Pilze III, p. 71. 3656

*Hab.* in stipitibus emortuis Chamædoreæ elatioris, in horto bot. München Baviaræ. — Acervuli dense gregarii, pulvinati, fusci, 0,5-2 mm. long., subcutaneo-erumpentes; nucleus albidogriseus; conidia cylindracea, obtusa, 13-16  $\times$  3; basidia 60-100  $\approx$  6-7, deorsum luteola, ramosa. *Gl. sphaerelloidi* peraffine.

35. **Glæosporium Palmarum** Oud. Contr. Myc. Pays-bas XIV, p. 48. 3657

*Hab.* in vaginis foliorum Arecæ sapidæ sectorum, Amsterdam. — Acervuli orbiculares, griseo-brunneoli, medio perforati; conidia tereti-oblonga, continua, intus granulosa, recta v. curvula, 18-21  $\times$  4,5-7 in cirrum pallide roseum perporum eructata.

36. **Glæosporium Oncidii** Oud. l. c. *Discula Oncidii* Oud. olim. 3658

*Hab.* in foliis Oncidii lanceani in horto botanico Amsterdam. — Acervuli conferti, 0,3-0,5 mm. diam., medio aperti; conidia 14-17  $\times$  4,5-6, oblonga v. piriformia, in massulam roseam centro emergentia.

37. **Glæosporium Trillii** Ell. et Ev. Proc. Acad. Phil. 1894, p. 371. 3659

*Hab.* in Trillii sessilis, California (BLASDALE). — Maculæ amphigenæ, sparsæ, minutæ, albide; acervuli epiphylli, flavidi, majusculi erumpentes, subinde solitarii; conidia tereti-oblonga, curvula, 10-15  $\approx$  2,5-3,5.

38. **Glæosporium veratrinum** Allesch. Verz. Süd-Bay. Pilze III, p. 72. 3660

*Hab.* in foliis languidis Veratri Lobeliani, Oberammergau Baviaræ, sociâ *Phyllosticta melanoplaca*. — Maculæ nullæ; acervuli epiphylli, tecti, brunnei; conidia teretia, recta, obtusa 18-25  $\approx$  2,5-3,5, hyalina, 4-guttata.

39. **Glæosporium graminum** Rostr. Beiheft. Bot. Centralbl. 1893, p. 4. 3661

*Hab.* in foliis Lolii multiflori in Dania. — Acervuli copiosi, brunnei; conidia inæqualiter oblonga, 11-14  $\approx$  4-6.

40. **Glæosporium Dactylidis** Rostr. Beihefte Bot. Centralbl. 1893, p. 4. 3662

*Hab.* in pedunculis adhuc vivis panicularum Dactylidis glo-

meratæ in Dania. — Acervuli brunnei; conidia oblonga, hyalina,  $5 \approx 1$ .

### III. In Acotyledoneis.

41. *Glœosporium Osmundæ* E. et E. in Proceed. Acad. N. Sc. Philad. 459. 3663

*Hab.* in pinnulis *Osmundæ cinnamomeæ* Michigan Amer. bor. (Hicks). — Acervuli innati, minuti amphigeni, in maculis brunneis flavo-marginatis siti; conidia subglobosa,  $3 \mu$ . diam.; cirri albid.

42. *Glœosporium Kriegerianum* Bres. Hedw. 1892, p. 40. 3664

*Hab.* in caulibus vegetis *Equiseti arvensis* pr. Grossenheim Saxonie (KRIEGER). — Maculæ rufo-nigræ; acervuli tecti dein erumpentes, pulvinati, 0,5-0,7 mm. lati; conidia 8-10  $\approx$  3-4, oblonga, 2-guttata v. demum granulosa; basidia conidio paullo longiora, filiformia.

### MYXOSPORIUM Link — Syll. III, p. 722, X, p. 464.

1. *Myxosporium Pholus* Fautr. et Lamb. Rev. myc. 1894, p. 161. 3665

*Hab.* in sarmentis siccis *Ampelopsidis hederaceæ*, Côte-d'Or Gallie. — Acervuli erumpentes, inæquales, rosei dein nigricantes; cirri albid; conidia acro-pleurogena, 6-8  $\approx$  2,5-3, guttulata; basidia simplicia v. ramosa.

2. *Myxosporium seriatum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 372. 3666

*Hab.* in cortice *Aceris* in Virginia occid. (NUTTALL). — Acervuli pallidi, orbiculares, 1 mm. diam., seriati; conidia 6-8  $\approx$  2-2,5, hyalina, allantoidea, stipitellata; cirri applanati, carnei.

3. *Myxosporium Corni* Allesch. Hedw. 1894, pag. 73. — Acervulis 3667

gregariis, epidermide primum pustulatim inflata dein fissa, tectis, suberumpentibus, fusco-brunneis, intus pallidis; conidiis oblongis, utrinque subrotundatis, continuis, rectis, hyalinis, eguttulatis, 10-12  $\approx$  2-3.

*Hab.* in ramulis emortuis *Corni sanguineæ* et *C. albæ* pr. München in Bavaria.

4. *Myxosporium padinum* Allescher Verz. Südbay. Pilze p. 6 (1892). 3668

*Hab.* in ramis emortuis *Pruni Padi* pr. München Bavarie. — Acervuli subcutaneo-erumpentes, brunnei, intus pallidi; conidia oblongo-fusoidea, continua, hyalina, 12-16  $\approx$  3-4, bi-triguttata; basidia paullo longiora.

5. *Myxosporium Viburni* Fautr. Rev. Myc. 1893, p. 20. 3669

*Hab.* in ramulis tenellis *Viburni Lantanæ*, Noidan Côte-

- d'Or Gallie. — Acervuli corticolæ innato-erumpentes, ligno adnati, pulvinati; conidia oblonga, utrinque rotundata, 10-11  $\approx$  4-4,5.
6. *Myxosporium viburneum* Allesch. Hedw. 1894, p. 73 (*M. Viburni*). 3670  
— Acervulis sparsis, epidermidè, pustulatim primum inflata dein fissa, tectis, suberumpentibus, cinereo-atris, intus fusco-brunneis; conidiis oblongis, subcylindraceis, utrinque obtusis, hyalinis, enucleatis, 10-15  $\approx$  3-4.

*Hab.* in ramulis emortuis Viburni Lantanæ et V. Opuli pr. München in Bavaria. — « Verisimiliter non satis diversum a præcedente ».

7. *Myxosporium luteum* E. et E. N. A. F. 2953, Fung. Columb., 150; 3671 in Proceed. Ac. N. Sc. Phil. 458.

*Hab.* in cortice Caryæ tomentosæ, Nuttallburg Virginiae occid. (NUTTALL). — Acervuli globoso-conici, læte flavi, 0,7-1 mm. diam., innati, uniloculares; conidia naviculari-oblonga, 10-11  $\approx$  4-5, hyalina, 1-2-nucleata in massam carneam eructata; basidia 15-20  $\approx$  1,5.

8. *Myxosporium platanicolum* Ell. et Ev. Proc. Acad. Philad. 1894, 3672 p. 372.

*Hab.* in ramis emortuis Platani in Virginia occid. (NUTTALL). — Acervuli subcutanei, vesiculosi, pallidi, 1 mm. diam., non erumpentes; conidia 10-12  $\approx$  5-6, hyalina, nucleata; basidia obtusa.

9. *Myxosporium devastans* Rostr. Angreb. in Bot. Centralbl. 1894, 3673 Vol. LVII, p. 184.

*Hab.* in ramis et truncis Betulæ albæ et B. verrucosæ, quas devastat, in Dania. — Acervuli innato-erumpentes, convexi, læte brunnei, dein atro-brunnei, discoidei; conidia 7-9  $\approx$  3-4, hyalina biguttata; basidia ramosa.

## MELANOSTROMA Corda Syll. III, p. 728.

1. *Melanostroma Sorbi* Rostr. Till. Grönl. Svamp. p. 627.

*Hab.* in ramulis Sorbi americanæ Neriats Groenlandiæ (N. HARTS). — Stroma corneum, discoideum, transverse oblongum vel elongatum, flexuosum, atrum; conidia oblique oblonga, diaphana, 8-9  $\approx$  2,5. 3674

## COLLETOTRICHUM Corda. — Syll. III, p. 735, X, p. 468.

1. *Colletotrichum Magnusianum* Bresad. Fungi Trid. II, p. 45, t. 150, 3675 f. 3, Mass. Nuova Contr. Micol. Veron. p. 49.

*Hab.* in foliis Malvæ rotundifoliæ in agro Veron. — Acer-

- vuli epiphylli, innato-erumpentes, in maculis albis; setæ parvæ 30-40  $\approx$  3-4, fuliginæ, septatæ; conidia teretiuscula, hyalina, guttata, 16-20  $\approx$  4-5; basidia 12-14  $\approx$  2-3, hyalina. «Cum *C. Malvarum* comparandum».
2. *Colletotrichum Sanguisorbæ* Bres. Hedw. 1894, p. 208. 3676  
*Hab.* in foliis *Sanguisorbæ officinalis*, Königstein Saxonie (KRIEGER). — Maculæ ochraceo-fuscae; acervuli laxè gregarii; hyphophylli, erumpenti-superficiales, 160-180  $\mu$ . diam.; setulæ olivaceæ 80-110  $\approx$  3-6; conidia subfusioidea 9-10  $\approx$  2-2,5.
3. *Colletotrichum Rhexiæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 372. 3677  
*Hab.* in foliis *Rhexiæ virginicæ*, Delaware Amer. bor. (COMMONS). — Maculæ orbiculares, minutæ, 1-2 mm. diam., albidæ, rubido-marginatæ; acervuli sæpius epiphylli, sphærioidei, erumpentes 250-350  $\mu$ . diam.; setulæ nigricantes, 60-70  $\approx$  3-3,5; conidia 12  $\approx$  4, obtusa, 2-nucleata; basidia brevissima.
4. *Colletotrichum Lycopersici* Chester Bull. Torr. Bot. Club. 1891, 3678  
 p. 371. Cfr. Journ. of Myc. VII, p. 159.  
*Hab.* in fructibus *Lycopersici* esculenti in Amer. bor. Diagnosim non vidi.
5. *Colletotrichum Ailanthi* Togn. Seconda Contr. Micol. tosc. p. 16. 3679  
*Hab.* in petiolis *Ailanthi glandulosæ* in Etruria. — Acervuli atri, plani; setulæ 90-135  $\approx$  5-9; conidia falcata 22  $\approx$  4-5, granulosa, hyalina; basidia 13-15  $\approx$  3.
6. *Colletotrichum Montemartini* Tognini Contr. Micol. Tosc. p. 15. 3680  
*Hab.* in foliis *Ari italici* in Etruria. — Acervuli epiphylli, in maculis pallidis rufè-cinctis siti; setæ atræ, continuæ 65-90  $\approx$  6-6,5; conidia cylindracea, subrecta, hyalina 16-22  $\approx$  4,5-5; basidia brevè simplicia.
7. *Colletotrichum omnivorum* Halst. Rep. New Jers. Agr. St. 1891, 3681  
 p. 293.  
*Hab.* in foliis, petiolis etc. *Aspidistræ*, *Funkie* etc. varietatum variegatarum in Amer. bor. — Acervuli in areis arescentibus siti; conidia 20-28  $\approx$  3-5, falcata; setæ longæ, acutæ, nigricantes.
8. *Colletotrichum Agaves* Cav. F. Longob. exs. Pug. II, n. 100. 3682  
*Hab.* in foliis *Agaves* spec. in horto botanico, Pavia. — Maculæ pallidæ; acervuli conici epidermide atrata tecti; setæ paucæ 90-100  $\approx$  5-6, fusco-ochraceæ, 2-3-septatæ; conidia 22-26  $\approx$  4-5, recta, hyalina; basidia subramosa, infra fusca.
9. *Colletotrichum falcatum* Went Het rood snot p. 7, t. V-VI. — 3683

Setis nunc seriatis nunc in pseudo-conceptaculum congregatis; cuspidatis, 100-200  $\approx$  4, fuliginéis, sursum pallidioribus; conidiis falcatis 25  $\approx$  4, hyalinis, ad basim setarum sitis; basidiis ovoideis, 20  $\approx$  8, hyalinis v. fuscis.

*Hab.* in culmo vivo Sacchari officinarum in insula Java.

## Sect. 2. Phæosporæ.

**MELANCONIUM** Link — Syll. III, p. 749, X, p. 471.

1. **Melanconium Magnoliæ** Ell. et Ev. Journ. Myc. 1892, VII, p. 133. 3684

*Hab.* ad ramos emortuos Magnoliæ glaucæ, Newfield N. J. Amer. bor. — Acervuli innati, ovato-conici, 1-1,5 mm. diam.; conidia obovata, pallide olivaceo-brunnea, 12-15  $\times$  9-11, hyalino-marginata, grosse nucleata; basidia 50-75  $\approx$  4, simplicia v. ramosa, subseptata; cirri nigri.

2. **Melanconium acerinum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 373. 3685

*Hab.* in ramis emortuis Aceris macrophylli, Pasadena California (MAC CATCHIE). — Acervuli innati, convexi, orbiculares, 1-1,5, dein erumpentes; conidia ovoidea, 20  $\approx$  15, subopaca.

3. **Melanconium Prunilusitanicæ** Oud. Contr. Myc. Pays-bas XIV, 3686 pag. 50.

*Hab.* in ramis Prunilusitanicæ, Schéveningue Nederlandiæ (DESTRÉE). — Acervuli innato-erumpentes, late conoidei; conidia obovata, olivaceo-fuliginea, 10-14  $\approx$  7.

4. **Melanconium Myricariæ** Otth Bern. Mittheil. 1868, p. 68. 3687

*Hab.* in ramis Myricariæ germanicæ, Steffisburg Helvetiæ. — Acervuli nigri, rotundi, oblongi v. lineares, plani; conidia fumosa, oblongata, utrinque rotundata, 10  $\times$  6,5, plasmate medio interrupto; basidia longiora, hyalina.

5. **Melanconium Salicis** Allesch. Fungi bav. exsicc. n. 386. 3688

*Hab.* in ramis emortuis Salicis incanæ pr. München Bavaricæ. — Acervuli subcutaneo-erumpentes, truncato-conoidei, 0,3-0,5 mm. diam.; conidia minuta ovato-oblonga, obtusa, 1-2-guttata, 4-7  $\approx$  2,5-4; basidia dense fasciculata, filiformia, hyalina 8-15  $\times$  1,5-2.

6. **Melanconium Celtidis** E. et E. New West-Amer. Fung. p. 24 in Erythraea Vol. II, 1894. 3689

*Hab.* in ramis emortuis Celtidis, Kansas Amer. bor. (BARTHOLOMEW). — Acervuli gregarii, hemisphærico-tuberculiformes 1 mm. diam., dein umbilicati; conidia oblonga, obtusa, brunnea 12-15  $\approx$  5-7; basidia 35-40  $\mu$ . longa.

7. *Melanconium stenosporum* Ell. et Ev. Proc. Acad. Phil. 894, 3690 p. 373.

*Hab.* in cortice Caryæ, Ohio Amer. bor. (MORGAN). — *Acer-*  
vuli subcutanei, 1,5–2 mm. diam. convexi, intus albi; conidia 13–  
15  $\approx$  3–4, oblonga, leniter curva, brunnea, in maculas nigras he-  
misphæricas eructata.

8. *Melanconium hysterinum* Sacc., Flor. myc. lusit. p. 21. — *Acer-* 3691  
vulis innato-erumpentibus, dense gregariis, longitrorsum elongatis,  
atris, epidermide lacera cinctis,  $\frac{1}{2}$ – $\frac{3}{4}$  mm. long.,  $\frac{1}{6}$  mm. cr.; co-  
nidiis globosis majusculis, 18–21  $\mu$ . diam. fuligineis; basidiis cy-  
lindræis, inæqualibus 18  $\approx$  4–5, fuscellis e thalamio parenchyma-  
tico fuligineo oriundis.

*Hab.* in culmis emortuis Bambusæ Simonini in Horto bo-  
tanico, Coimbra Lusitanie (MOLLER). — Ab affini *M. sphærospermo*  
conidiis duplo maioribus, a *M. bambusino* conidiis minoribus et  
basidiis recedit. — *Mel. Mollerianum* Thüm. — Syll. III, p. 716. —  
species est valde diffusa in Lusitania et satis ludibunda; non raro  
circa acervulos oriuntur setulæ fuliginæ, paucae, transitum ad *Col-  
letotrichum* ostendentes. Conidia tereti-oblonga, inæqualia, 14–18  
 $\approx$  4–6; basidia æque variabilia 10–16  $\approx$  4–6

**CRYPTOMELA** Sacc. — Syll. III, p. 700.

1. *Cryptomela Strelitziae* Bresad. Hedw. 1895, p. (66).

3692

*Hab.* in caule Strelitziae augustæ, in horto Berolinensi  
cultæ. — *Acervuli* subcutanei, atrii, 0,5–0,7 mm. lat.; conidia 15–  
18  $\approx$  6–8, mellea.

2. *Cryptomela Allescheri* Schnabl. Berichte bay. bot. Gesell. 1892, 3693  
II, p. 69.

*Hab.* in foliis aridis Pini pumilionis pr. Oberammergau  
Bavariæ. — *Acervuli* elongati, erumpentes, atrii; conidia fusioidea,  
continua, acuta, olivacea, 11–13  $\approx$  4–5; basidia hyalina, 12–14  $\approx$  2–3.

### Sect. 3. Didymosporæ.

**DIDYMOSPORIUM** Nees — Syll. III, p. 763, X, p. 475.

1. *Didymosporium stromaticum* Pat. Bull. Soc. Myc. 1893, p. 164. 3694

*Hab.* in foliis vivis Cestri, Rio Machangara Æquatorie (LA-  
GERHEIM). — *Maculæ* nullæ; *acervuli* stromatici superficiales, atrii,  
villosi, 0,3–0,7 mm. diam., contextu brunneo; conidia ovoidea, 1–

septata, asperula, brunnea 16-26  $\times$  10-13; basidia 20-30  $\times$  5-6, erecta, rugulosa,

**SEPTOMYXA** Sacc. — Syll. III, p. 766, X, p. 476.

1. *Septomyxa persicina* (Tres.) Sacc. Syll. III, p. 766. — var. *nigricans* 3695  
Peck 47 Rep. p. 21.

*Hab.* ad corticem Cucurbitarum fructus, Menands Amer. bor. — Plagæ nigræ; conidia oblonga 2-4-nucleata, hyalina, 7-12  $\times$  3-4, in cirros v. massulas vinoso-persicinas eructata.

2. *Septomyxa padina* Allesch. Vers. Südbay. Pilze p. 6. 3696

*Hab.* in ramis emortuis Pruni Padi pr. München Baviaræ. — Acervuli subcutaneo-erumpentes, sordide rosei; conidia fusoidæ, obtusa 12-16  $\times$  3-4, medio 1-septata, non constricta, hyalina; basidia conidio paullo longiora. An *Myxosporii padini* status maturus?

**MARSONIA** Fisch. — Syll. III, p. 767, X, p. 476.

1. *Marsonia Actææ* Bres. Hedw. 1893, p. 33. — Acervulis amphigenis, non maculiculis, dense gregariis, 140-160  $\mu$ . diam.; conidiis subcylindraceis, guttulatis, 1-septatis, 20-26  $\times$  6, ad septum subconstrictis. 3697

*Hab.* in foliis exsiccatis Actææ spicatæ, Nossen Saxoniar. (KRIEGER).

2. *Marsonia deformans* Cooke et Massee Grev. XIX, p. 62. 3698

*Hab.* in foliis, stipulis, petiolis etc. Pisi sativi culti, Victoria Australiæ (MARTIN). — Acervuli epiphylli, brunnei, matricem deformantes, subinde in maculis decoloratis latis insertis; conidia oblonga, constricto-1-septata, hyalina, 15-16  $\times$  5.

3. *Marsonia Medicaginis* Voss Myc. Carn. IV, p. 259. — Maculis 3699  
flavis, fusco-marginatis, rotundatis v. ellipticis; acervulis sparsis, minutis, amphigenis, scutiformibus, atris; conidiis elongatis v. oblongis, rectis curvatisque, utrinque rotundatis, non raro subconstrictis, hyalinis, 2-4-guttulatis, continuis, denique 1-septatis, 15-20  $\times$  4,5-5,5.

*Hab.* in foliis vivis Medicaginis lupulinæ pr. Laibach Carniolæ.

4. *Marsonia Grossulariæ* Oud, Contr. Myc. Pays-bas XIV, p. 50. 3700

*Hab.* in ramis tenellis Ribis Grossulariæ, Schéveningue Nederlandiæ (DESTRÉE). — Maculæ nigræ, nitidæ, 100-200  $\mu$ . diam.; conidia cylindracea, medio 1-septata, 7-10  $\times$  2-3, hyalina, coacer vata mellea; basidia filiformia dimidio breviora.

5. *Marsonia ribicola* E. et E. New West Amer. Fung. in *Erythea* 3701 p. 201.

*Hab.* in foliis *Ribis aurei*, Colorado Amer. bor. (RAKER). — Maculæ amphigenæ, griseo-virentes, demum brunneæ; acervuli epiphylli, pallide flavi, dein atri, 110–150  $\mu$ . diam.; conidia 1-septata, flavella, 10–14  $\approx$  5–6, leviter constricta, recta.

6. *Marsonia Sorbi* P. Magn. Die von Peyr. in Tirol. gesamm. Pilze, p. 47. 3702

*Hab.* in foliis *Sorbi Ariæ* pr. Vill Tirolie (PEYRITSCH). — Maculæ indefinitæ, latæ, flavo-brunneæ; acervuli pustuliformes, tecti; conidia stipitellata 15–21  $\approx$  5–6, bilocularia, loculo super. rotundato. — Subinde adsunt conidia minora apice subulata, nec non, in acervulis peculiaribus, conidia minima, cylindrica, 3–4  $\approx$  1, stipitellata.

7. *Marsonia Wyethiæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 373. 3703

*Hab.* in foliis *Wyethiæ* (*Helianthi*) glabræ, Santa Rosa Californiæ (BLASDALE). — Maculæ internerviæ, brunneæ, dein confluentes; acervuli amphigeni 65–75  $\mu$ . diam., ex albo carnei; conidia oblongo-ovoidea, hyalina, 1-septata, vix constricta, 18–27  $\approx$  10–13.

8. *Marsonia Fraseræ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 373. 3704

*Hab.* in foliis *Fraseræ thyrsofloræ*, Colorado Amer. bor. (PIPER). — Maculæ orbiculares, flavido-brunneæ; acervuli erumpentes, 150–200  $\mu$ . diam., pallidi; conidia cylindraceo-oblonga, constricto-1-septata, 12–20  $\approx$  5–6, obtusa, hyalina.

9. *Marsonia populina* Schnabl in Berichte bay. bot. Gesell. 1892, II, 3705 pag. 68.

*Hab.* in foliis *Populi nigræ* pr. München Baviaræ. — Maculæ amphigenæ, fusco-marginatæ; acervuli epiphylli, punctiformes, fulvelli; conidia oblonga, utrinque rotundata, medio constricto-1-septata, hyalina, 9–11  $\approx$  4–5.

10. *Marsonia rhabdospora* E. et E. New Sp. north Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 168. 3706

*Hab.* in foliis *Populi grandidentatæ*, Newfield N. J. Amer. bor. — Maculæ amphigenæ; acervuli hypophylli, carnei, erumpentes; conidia subrecta, cylindrica, 20–30  $\approx$  2, uniseptata, hyalina.

11. *Marsonia salicicola* Bres. Fung. aliq. Saxon. lect. Krieg. in Hedw. 1893, p. 32. — Maculis epiphyllis, indeterminatis, rufescentibus; acervulis punctiformibus, albis; conidiis clavato piriformibus, hyalinis, infra medium 1-septatis, 15–17  $\approx$  5–8. 3707

*Hab.* in foliis *Salicis capræ*, Königstein Saxonie (L. KRIEGER).



12. **Marsonia Kriegeriana** Bres. Hedw. 1892, p. 40.

3708

*Hab.* in foliis Salicis amygdalinæ pr. Königstein Saxoniae (KRIEGER). — Maculæ minimæ, orbiculares, atræ, epiphyllæ; acervuli albidi, depressi; conidia subfusoideo-falcata, infra medium 1-septata, 14-16  $\times$  5-6, hyalina.

13. **Marsonia Veratri** Ell. et Ev. Proc. Acad. Phil. 1894, p. 373.

3709

*Hab.* in foliis Veratri californici, Washington Amer. bor. (PIPER). — Maculæ amphigenæ, albidæ, rubido-marginatæ; acervuli minuti; conidia tereti-clavata, curvula, 1-septata, hyalina, 18-22  $\times$  3-3.5, apice subtruncata.

**GLÆOSPORIELLA** Cav. Fung. Long. exs. n. 41, (Etym. a *Glæosporio*).

— Acervuli subepidermici, erumpentes. Conidia didyma utrinque 3-4-ciliata, subhyalina. Conidia sporulas *Entomosporii* in mentem revocant.

1. **Glæosporiella rosicola** Cavares l. c. Acervulis prominulis conicis, punctiformi-irregularibus, erumpentibus, fuscis, stromate imperfecte evoluto, brunneo; nucleo albido; conidiis  $\phi$  strato prolifero orientibus, didymis, hyalinis, loculo singulo sphaerico vel subovoideo, 3 vel 4 ciliis, medio insertis, prædito, 4.5-6.5.

*Hab.* in aculeis Rosæ rubiginosæ, Cencerate in Valle fluvii Staffora, Lombardia.

*Sect. 4. Phragmosporæ*

**STILBOSPORA** Pers. — Syll. III, p. 771, X, p. 480.

1. **Stilbospora viticola** Otth Bern. Mittheil. 1868, p. 67.

3711

*Hab.* in ramis Vitis viniferæ, Bern Helvetiæ. — Acervuli parvi, pustulati, tecti, nigri; conidia fumoso-brunneola, ovoideo-oblonga, 4-locularia, 16-18  $\times$  5-6, loculo infimo hyalino, basidiis longioribus hyalinis suffulta.

2. **Stilbospora polycystis** Otth Bern. Mittheil. 1868, p. 67.

3712

*Hab.* in ramis dejectis Fagi in Bremgartenwald Helvetiæ. — Acervuli nigrofusci, subcutanei, 2-3, mm. lat.; conidia 32-42  $\times$  16-21, strato mucoso obducta, brunnea, ovato-oblonga multicellulosa, brunnea, longe hyalino-stipitata. « Verisimiliter eadem ac *Stegano-sporium piriforme* ».

3. **Stilbospora fennica** Karst. Fragm. mycol. XLII, in Hedwigia 1894. p. 16.

3713

*Hab.* in foliis Pini silvestris, quæ enecat, pr. Vasa Fenniæ.

— *Peraffinis S. pinicolæ*, a qua differt acervulis amphigenis, conidiis majoribus,  $35 \approx 5-9$ , subinde clavulatis  $3-5$ -septatis, dilute fuligineis.

4. **Stilbospora Varneyana** Ell. Descr. new Spec. Fung. Journ. Mycol. 3714 1893, VII, p. 278.

*Hab.* in ramis emortuis speciei non indicatæ, Washington Amer. bor. (ANDERSON et VARNEY). — Acervuli subcutanei; conidia 3-septata, non constricta, ex hyalino atro-brunnea,  $15-25 \approx 12-14$ , loculo summo hyalino. A *S. angustata* conidiis minoribus apiceque hyalinis recedit.

**CORYNEUM** Nees — Syll. III, p. 774, X, p. 481.

1. **Coryneum cornicolum** E. et E. New Sp. north Am. Fun. in Pro- 3715 ceed. Acad. S. N. Philaid. 1893.

*Hab.* in cortice interiore Corni alternifoliæ, Canada Amer. bor. (DEARNES). — Acervuli erumpentes, varii, tuberculiformes, nigri; conidia vermiculato-fusoidea,  $6-8$ -septata, curvula, brunnea, stipitata,  $35-45 \approx 7-8$ , cellulis exsimis hyalinis.

2. **Coryneum anceps** Sacc. Grev. XX, p. 68, t. 184, fig. 23, et in 3716 Zeitschr. f. Pflanzenkr. 1893, p. 162. — Maculis brunneo-rufis, irregularibus, centro saturationibus; acervulis punctiformibus, nigris, erumpentibus, gregariis; conidiis ellipsoideo-oblongis, inæquilateris,  $5-6$ -septatis,  $24-26 \approx 8$ , olivaceo-fuligineis, ad septa leniter constrictis, loculis extremis exiguis, hyalinis, superiori plerumque curvo rostriformi,  $3-4 \approx 0,6$ ; stipite filiformi, hyalino,  $30-40 \approx 1$ , subinde binis basi junctis.

*Hab.* in foliis languidis *Evonymi* alati in Ussuria australi Sibirix orient. (N. PALTSCHESKY, commun. N. BUSCH). Subaffine *Coryneo intermedio* Sacc.

3. **Coryneum Ruborum** Oud. Contrib. Fl. myc. Pays-Bas. XV, p. 17. 3717 Acervulis subepidermicis, demum superficialibus; conidiis ellipticis v. subpiriformibus, summitate rotundatis, basi subattenuatis,  $3$ -septatis, pallide fuligineis,  $14-16 \approx 7$ .

*Hab.* ad ramos *Rubi* cujusdam. — A *C. Rubi* (corda) Sacc. conidiis  $3$ -septatis, a *C. microstictico* conidiis fuligineis et a *C. microstictico*  $\beta$  *laurino* basidiis latioribus differt.

4. **Coryneum Rhois** (Rabenh.) Sacc. *Ceuthospora Rhois* Rab. in Fuck. 3718 F. Rhen. n. 1570, absque diagnosi [in Herb. Brux.]. — Acervulis subsparsis, hypophyllis, erumpentibus, nigris, compactis; conidiis verticaliter dense fasciculatis, basi angustata, brevissima, truncata pallidiori, apice obtuse rotundatis,  $3$ -septatis, ad septum medium

valde, ad cetera nihil constrictis, conidia bina 1-septata superimposita, quasi *Bisporæ*, simulantibus, olivaceo-fuliginis, demum saturatioribus,  $24 \approx 8-9$ .

*Hab.* in foliis aridis Rhodis Cotini, Biebrich Germania, raro (FUCKEL). — Stirps anceps, sed cum *Ceuthospora* nil commune habens. In Fuckelii Symb. Mycol. reperire non potui.

5. *Coryneum mucronatum* C. Massal. Nuova contr. Micol. Veron. p. 51, 3719 t. IV, f. 17.

*Hab.* in foliis dejectis Quercus pubescentis prope pagum Garda agri Veronensis Ital. bor. — Acervuli hypophylli, subcutaneo-erumpentes, atri; conidia 16-19  $\approx$  6-7, utrinque acuta, 3-4-septata, loculis mediis fuscis, extimis hyalinis conoideis, apicali incurvo-mucronato; basidia 22-30  $\approx$  2.

6. *Coryneum Salicis* Togn. Seconda Contr. Micol. tosc. p. 17. 3720

*Hab.* in ramis Salicis albæ in Etruria. — Acervuli atri, erumpentes; conidia 3- sæpius 2-septata, 11-16  $\approx$  6-7, fuliginea, loculis extimis pallidioribus; basidia 25  $\approx$  1, hyalina.

7. *Coryneum populinum* Bres. F. Trid. II, p. 46, t. 150 f. 4. 3721

*Hab.* in cortice truncorum Populi nigræ in agro Tridentino. — Acervuli innato-erumpentes, subcirculares, atri, 1-2 mm. diam.; conidia subfusioidea v. ellipsoidea, læte luteo-mellea, 3-septata, constricta 25-32  $\approx$  9-11; basidia filiformia, 30-40  $\mu$ . longa.

8. *Coryneum abietinum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 375. 3722

*Hab.* in cortice Abietis, Newfoundland seu Terra nova (WAGHORN). — Acervuli erumpentes, plani, brunneo-atri, 1,5-3 mm. diam.; conidia pallide brunnea, fusioideo-oblonga, 3-4-septata, 20  $\approx$  10; basidia subæquilonga.

9. *Coryneum cupulatum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 374. 3723

*Hab.* in ramis emortuis Trugæ Canadensis, Nuttallburg Virginiae occid. (NUTTALL). — Acervuli erumpenti-superficiales, nigri 1-1,5 mm. diam., dein cupulati; conidia clavata, sessilia, 6-9-septata, brunnea, 60-80  $\approx$  12-15.

## ASTEROSPORIUM Kunze — Syll. III, p. 782.

1. *Asterosporium strobilorum* Roum. et Fautr. Rev. Myc. 1892, p. 103. 3724

*Hab.* in squamis conorum Abietis pr. Précy Côte-d'Or Gallia. — Acervuli erumpentes, inæquales; conidia clavata v. 2-3-loba, irregularia, 33  $\approx$  20, septato-muriformia; basidia 40  $\approx$  4, compressa, septata. « Ob conidia murali-divisa vix hujus generis ».

I. *Eu-Pestalozzia*.

1. **Pestalozzia Penzigi** Boy. et Jacz. Mat. mycol. Montpel. p. 47, f. 8. 3725  
*Hab.* in ramis siccis *Genistæ Scorpii* pr. Montpellier. —  
 Conidia oblonga,  $16 \approx 5-6$ , 2-septata, brunnea, loculo imo hyalino,  
 apice longe 3-4-setifera.
2. **Pestalozzia lateripes** Ell. et Ev. Journ. Myc. VII, p. 133. 3726  
*Hab.* in leguminibus *Cassiæ Chamæcristæ*, Newfield N. J.  
 Amer. bor. — Acervuli pustuliformes v. hysteroidei, 0,3 mm. diam.;  
 conidia tereti-cylindræa, flavo-brunnea, 3-septata, cellula summa  
 conica, hyalina, setas ternas 15-20  $\mu$ . long. gerente, ima cellula  
 angustiore, pedicello excentrico 10-12  $\mu$ . longo suffulta.
3. **Pestalozzia toxica** Ell. et Ev. Proc. Acad. Phil. 1894, p. 374. 3727  
*Hab.* in foliis *Rhois Toxicodendri*, Nuttallburg Virginie  
 occid. (NATTALL). — Acervuli maculicolæ, punctiformes; conidia  
 tereti-oblonga, 4-septata, 12-15  $\approx 4-5$ , pallide brunnea, cellula  
 summa conica, hyalina, setas ternas 6-7  $\mu$ . long. gerente, ima cel-  
 lula hyalina, breviter pedicellata.
4. **Pestalozzia zonata** Ell. et Ev. Proc. Acad. Phil. 1894, p. 374. 3728  
*Hab.* in fructibus putrescentibus *Cydoniæ*, Newfield N. J.  
 Amer. bor. — Acervuli erumpentes, atri, concentrici; conidia fu-  
 soidea, 4-septata, leniter constricta, breviter stipitata, nigricantia,  
 cellulis extimis hyalinis, apicali setas ternas 15-25  $\mu$ . longas gerente.
5. **Pestalozzia Epilobii** Roll. et Fautr. Rev. myc. 1894, p. 10. 3729  
*Hab.* in caulibus siccis *Epilobii hirsuti*, Côte-d'Or Galliæ.  
 — Acervuli erumpentes, conici; conidia 3-septata 14-15  $\approx 5-6$ , loculis  
 mediis brunneis, extimis hyalinis; setulæ 2-3 ramosæ, 20-25  $\mu$ .  
 long.; basidia 8-10  $\approx 2$ ; conidia adulta loculos polares amittunt.
6. **Pestalozzia Polygoni** Ell. et Ev. Proc. Acad. Phil. 1894, p. 374. 3730  
*Hab.* in foliis *Polygoni virginiani*, Delaware Amer. bor.  
 (COMMONS). — Maculæ lateritæ; acervuli punctiformes, nigri; conidia  
 tereti-fusoidea, pallida, 3-4-septata, 18-22  $\approx 4$ , breviter pedicellata;  
 cellula suprema setas ternas 10-15  $\mu$ . longas gerente.
7. **Pestalozzia nucicola** E. et E. in Proceed. Acad. N. Sc. Philad. 461. 3731  
*Hab.* in cortice interiore nucum *Caryæ dejectarum*, Newfield  
 N. J. Amer. bor. — Acervuli erumpentes, minuti, 150-200  $\mu$ . diam.;  
 conidia oblongo-fusoidea, 4-septata, 12  $\approx 4$ , loculis extimis hyalinis,  
 interioribus fumoso-brunneis; setulæ ternæ 7-10  $\mu$ . longæ.
8. **Pestalozzia brevipes** Prill. et Delacr. Bull. Soc. myc. 1894, p. 84. 3732

— Maculis ochraceis, indeterminatis; pseudo-peritheciis luteolis stromate parco constitutis; conidiis bi-vel tri-ciliatis, 4-septatis  $20-24 \approx 7-8$ ; articulis extremis hyalinis, medio fusco, saturatus colorato; pedicello brevi  $3-4 \mu$ . circ.; setis  $15 \approx 1$ .

*Hab.* ad folia Palmarum, in calidariis in Gallia.

9. **Pestalozzia Asphodeli** Boy. et Jacz. Mat. mycol. Montpell. p. 46. 3733  
fig. 9.

*Hab.* in caulibus siccis *Asphodeli cerasiferi* pr. Montpel-  
lier. — Acervuli subcutanei, copiosi, brunnei; conidia fuscoidea,  
 $25-30 \approx 7-8$ , quinquelocularia, brunnea, loculis extimis hyalinis,  
apice 3-setigera.

10. **Pestalozzia lycopodina** E. et E. in Proceed. Acad. N. Sc. Phi- 3734  
lad. p. 461.

*Hab.* in *Lycopodio complanato*, Delaware Amer. bor.  
(COMMONS). — Acervuli erumpenti-superficiales, conico-hemisphæ-  
rici  $0,3-0,5$  mm. diam.; conidia clavata, 4-septata,  $20 \approx 5$ , brunnea,  
pedicellata; cellula summa hyalina conica setulas ternas divaricatas  
 $10-12 \mu$ . longas gerente.

## II. *Monochaëtia* Sacc.

11. **Pestalozzia Kriegeriana** Bres. Hedw. 1894, p. 209.

3735

*Hab.* in foliis *Epilobii angustifolii*, Königstein Saxoniae  
(KRIEGER). — Conidia luteola, 4-locularia,  $20-24 \approx 4-5$ , arista unica  
curvula,  $9-10 \approx 0,5$ . A *P. Epilobii* diversa.

12. **Pestalozzia brachypoda** Sacc. Grev. XXI, p. 68, t. 184, fig. 12, 3736  
et in Zeitschr. f. Pflanzenkr. 1893, p. 162. — Acervulis punctifor-  
mibus, gregariis, nigris, in areolis albidis (entomogenis?) foliorum  
sitis; conidiis fuscoideis, sæpe inæquilateris, 3-septatis, non constri-  
ctis,  $18 \approx 5$ , loculis binis interioribus olivaceis, extremis hyalinis,  
setula unica stipiteque filiformibus hyalinis,  $7-8 \approx 1$ , æquilongis.

*Hab.* in foliis adhuc vivis *Viburni* (*Opuli*?), in Ussuria  
australi Sibir. orient. (N. PALTSCHESKY; communicavit N. BUSCH).

13. **Pestalozzia depazeoides** Otth Bern. Mittheil. 1868, p. 58.

3737

*Hab.* in foliis vivis *Rosarum*, Steffisburg Helvetiæ. — Sori glo-  
bosi, nigri, innati; conidia 3-septata,  $12 \approx 5$ , loculis mediis dilute  
fuscis, extimis hyalinis, appendicula filiformi hyalina.

14. **Pestalozzia hendersonioides** Fautr. Rev. Myc. 1893, p. 116.

3738

*Hab.* in ramis tenellis *Ribis alpini*, Côte d'Or Galliæ, sociâ  
*Diplodia Ribis*. — Acervuli atro-niditi, subcutanei, minuti; conidia

3-septata, fusioidea, obtusa, 14-16  $\approx$  5-6, pallide fuliginea, loculo summo hyalino; oblique monochæta; basidia 18  $\approx$  2.

15. **Pestalozzia insidens** Zabriskiæ in Bot. Centralbl. 1892. III, p. 272. 3739

*Hab.* in cortice Ulmi americanæ pr. Albany et Baltimore Amer. bor. (PECK). — Acervuli erumpentes, discoidei, 300-500  $\mu$ . diam.; conidia 32  $\approx$  12, curvula, 5-septata, loculis mediis atro-brunneis, extimis hyalinis; seta unica valida, flexuosa 17  $\mu$ . longa; basidia gracilia subinde inferne ramosa.

### III. Species inquirendæ.

16. **Pestalozzia?** Juniperi Allesch. Verz. Süd-Bay Pilze III, p. 84. 3740

*Hab.* ad ramulos Juniperi communis a *Gymnosporangio* deformatos, München Baviaræ. — Acervuli effusi, nigri; conidia fusioidea, longe stipitata, 5-septata, 25-30  $\approx$  6-9, atro-brunnea, loculis extimis conicis, hyalinis; setulis apicalibus nullis (an delapsis?).

17. **Pestalozzia Psidii** Pat. Journ. of Myc. 1892 (?), Bull. Soc. Myc. 1892. p. 136, (nomen).

*Hab.* in fructibus Psidii pomiferi, Pallafanga Æquatoris (LAGERHEIM). — In Journ. of Myc. 1892 deesse videtur.

**PESTALOZZINA** Sacc. Syll. III, p. 800, X, p. 496 (ut subgenus). — Est *Pestalozzia* conidiis hyalinis et huc quoque spectant **Pestalozzina unicolor**, **P. laurina**, **P. Fautreyi**.

1. **Pestalozzina Soraueriana** Sacc. in Sorauer Zeitschr. für Pflanzenkr. 1894, p. 213, t. IV, fig. 1-7. 3742

*Hab.* in foliis spicisque Alopecuri, quem valde vexat, in Austria (Prof. WEINZIERL; comm. Prof. SORAUER). — Acervuli innato-erumpentes, minuti, atri; conidia fusioidea, 3-septata, non constricta, hyalina, 50-60  $\approx$  10-12, utrinque acuta, subsessilia; setulæ 3-4 filiformes, flexuosæ ex apice lateribusque loculi summi orientes 20-30  $\mu$ . longæ.

2. **Pestalozzina Rollandi** Fautr. Rev. Myc. 1895, p. 71, t. 153, f. 22. 3743

*Hab.* in foliis Pini Strobi, Côte-d'Or Galliæ. — Conidia 12  $\approx$  3, biseptata, curvula, apice oblique monochæta, hyalina; basidia brevia.

**SEIRIDIELLA** Karst. Symb. Myc. Fenn. XXX, p. 67, (Etym. a *Seiridio*, cui affinis). — Acervuli erumpentes, pulvinati, atri; conidia ellipsoideo-oblonga, 3-septata, fuliginea, concatenata.

1. *Seiridiella ramealis* Karst. l. c.

3744

*Hab.* in ramis siccis *Betulæ* ad *Mustiala Fennicæ*. — *Acervuli*, 0,5 mm. diam; *conidia* 3-septata, non constricta, fuliginea, 18-22  $\approx$  8-9,5.

**SEPTOGLÆUM** Sacc. Syll. III, p. 801, X, p. 496.1. *Septoglœum Hartigianum* Sacc. in Hartig Forst. Zeitschr. 1892, 3745

8 Heft. — *Acervulis* innato-erumpentibus, laxè longitrorsum gregariis, oblongo-linearibus, peridermio fissis cinctis, 1-2 mm. long., 0,3 mm. cr., fuscis, basi sporigera crassa albida; *conidiis* ovato-oblongis, subrectis, utrinque obtusulis, typice 2-septatis, non v. vix constrictis, 24-36  $\approx$  10-12, ex hyalino dilutissime melleis; *basidiis* cylindraceis, basi sæpius incrassatis, 30-35  $\approx$  6-7,8, parallele stipatis, subinæqualibus, hyalinis.

*Hab.* in ramulis vivis, quos valde vexat, *Aceris campestris* pr. München Bavaricæ (R. HARTIG).

2. *Septoglœum Comari* Bres. et Allesch. Verz. Süd-Bay. Pilze III, p. 85. 3746

*Hab.* in foliis vivis *Comari palustris*, Oberammergau Bavaricæ. — *Maculæ* luteo-ochraceæ, epiphyllæ; *acervuli* disciformes, pallide fusci; *conidia* 3-septata, 30-45  $\approx$  4-5,5, utrinque rotundata, hyalina, nubilosa.

3. *Septoglœum Lupini* E. et E. in Proceed. Acad. N. Sc. Philad. p. 461. 3747

*Hab.* in foliis vivis *Lupini perennis*, Michigan Amer. bor. (HICKS). — *Maculæ* apicales, rufo-brunnæ; *acervuli* minuti, 60-70  $\mu$ . diam.; *conidia* tereti-oblonga, 1-3-septata, subcurva, 12-22  $\approx$  4-5.

4. *Septoglœum Convolvuli* E. et E. New West-Amer. Fung. p. 25 in 3748  
*Erythea* Vol. II, 1894.

*Hab.* in foliis *Convolvuli occidentalis*, Pesadena Californicæ (MAC CLATCHIE). — *Maculæ* amphigenæ, orbiculares, rufo-brunnæ, elevato-marginatæ; *acervuli* epiphylli, suberumpentes, sicci nigrescentes; *conidia* cylindræa, 3-septata, hyalina, recta v. curvula, 20-30  $\approx$  3.

Sect. 5. *Scolecosporæ*.**CYLINDROSPORIUM** Ung. — Syll. III, p. 737, X, p. 498.I. In *Dicotyledoneis*

1. *Cylindrosporium longisporum* Ell. et Dear. New Spec. Canad. Fung. 3749  
in Canad. Rec. Sc. 1893, p. 270.

*Hab.* in foliis *Lupini perennis*, London Canada (DEARNESS).  
— Maculæ pallide brunneæ, orbiculares, 2-5 mm. diam.; acervuli  
minuti, atri, epiphylli 35-90  $\mu$ . diam.; conidia recta v. curvula, 8-  
14-septata, 60-105  $\approx$  3-4,5.

2. *Cylindrosporium Negundinis* E. et E. New West-Amer. Fung. p. 3750  
25 in *Erythea* vol. II, 1894.

*Hab.* in foliis *Negundinis acoroidis* Kansas Amer. bor.  
(BARTHOLOMEW). — Maculæ amphigenæ, flavidæ; acervuli flavidi,  
300,  $\mu$ . diam., amphigeni, prominuli; conidia cylindræa, curva,  
3-7-septata, 40-60  $\approx$  2,5-3.

3. *Cylindrosporium Toxicodendri* (Curtis) E. et E. Proceed. Acad. N. 3751  
Sc. Philad. 1893, pag. 460, *Septoria* Curtis Herb., *Glaeosporium*  
E. et M. — Syll. p. 460, X, p. 354.

*Hab.* in foliis *Rhois Toxicodendri* et *R. diversilobæ*  
Canada, Iowa, California. — Acervuli amphigeni, 250-400  $\mu$ . lat.,  
epidermide atrata tecti; conidia chlorina, 30-60  $\approx$  2,5-3, nucleata,  
1-3-septata. Observante cl. Ellis est *Cylindrosporium* genuinum,  
nec *Septoria*.

4. *Cylindrosporium Cratægi* Ell. et Ev. Proc. Acad. Phil. 1894, p. 372. 3752

*Hab.* in foliis *Cratægi*, Virginia occid. (NUTTALL). — Maculæ  
rufo-ferrugineæ, variæ; acervuli amphigeni, erumpentes; conidia  
75-100  $\approx$  3-3,5, flexuosa, tenuiter 3-5-septata, demum exsiliencia  
et albo-conspersgentia.

5. *Cylindrosporium Piri* Sorok. Paras. p. 127, t. XIX, f. 209-213. 3753

*Hab.* in foliis *Piri communis* in Caucaso. — Maculæ pallidæ  
brunneo-limitatæ; acervuli minuti, epiphylli; conidia filiformia,  
subinde curvula, 25-30  $\mu$ . longa.

6. *Cylindrosporium hamatum* Bres. in Voss. Myc. Carn. IV, p. 256. 3754

— Epiphyllum; acervulis subcutaneo-erumpentibus, applanatis,  
albis 0,5-0,7 mm. diam., in maculis brunneis innatis; conidiis bac-  
cillari-fusoideis, hyalinis, rostrato-recurvis v. falcatis v. flexuosis,  
demum 1-septatis, 45-60  $\approx$  3-4.



*Hab.* in foliis subvivi*s* *Heraclei austriaci* in Carniolia.

7. *Cylindrosporium Helosciadii-repentis* Magn. Peronosp. Brandenb. 3755 p. 68.

*Hab.* in foliis *Helosciadii repentis*, Brandenburg Germaniæ (SYDOW). — Acervuli subeffusi, albi, erumpentes, hypophylli; conidia 9-11  $\times$  2,5-3,9, hyalina; basidia brevissima.

8. *Cylindrosporium Pimpinellæ* C. Massal. — Syll. X, p. 503. — Var. *Pa-* 3756  
*stinacæ* Sacc. Fungi herb. Brux. n. 38, *Phyllosticta Umbellatarum* Rabenh. F. Eur. n. 1262 [in Herb. Brux.]. — Conidiis bacillaribus, sæpe curvulis, 40-50  $\times$  2,7-3, raro 30  $\times$  2,7, continuis, hyalinis; maculis foliorum minutis arescendo expallentibus.

*Hab.* in foliis *Pastinacæ sativæ* cultæ, Dresden Germaniæ. — Ob defectum perithecii genuini potius *Cylindrosporium* videtur quam *Septoria*.

9. *Cylindrosporium Chrysanthemi* Ell. et Dear. New. Spec. Canad. 3757 Fung. in Canad. Rec. Sc. 1893, p. 271.

*Hab.* in foliis *Chrysanthemi sinensis*, matricem deformans. in hortis London Canada Amer. bor. (DEARNESS). — Maculæ subindefinitæ, 1 cm. et amplius latæ, nigricantes; acervuli innati, amphigeni 100-170  $\mu$ . diam.; conidia fusioidea, rectiuscula, 50-100  $\approx$  3-4,5. demum exsiliencia.

10. *Cylindrosporium lactucicolum* E. et E. New West Amer. Fung. 3758 in Erythea 1893, p. 202.

*Hab.* in foliis *Lactucæ Ludovicianæ*, Colorado Amer. bor. (BAKER). — Maculæ amphigenæ, supra brunneæ, infra cinereæ; acervuli 60  $\mu$ . diam., innati, pallidi demum atrii; conidia cylindracea, subflexuosa, hyalina, nucleata, 20-30  $\approx$  2,5.

11. *Cylindrosporium Stachydis* Ell. Descr. new Spec. Fung. in Journ. 3759 Mycol. 1893, VII, p. 277.

*Hab.* in foliis *Stachydis palustris*, Illinois Amer. bor. (WAITE). — Maculæ amphigenæ, minutæ, ferrugineo-brunneæ; acervuli innati, minuti, hypophylli; conidia 35-50  $\approx$  2, multiseptata, hyalina, curva, dein exeuntia et matricem albo-conspergentia.

12. *Cylindrosporium Phaceliæ* E. et E. New Sp. North Am. Fung. in 3760 Proceed. Acad. S. N. Philad. 1893 p. 167.

*Hab.* in foliis *Phaceliæ sericeæ*, Montana Amer. bor. (KEL-SKY). — Acervuli amphigeni, minuti, innati; conidia oblongo-cylindracea, varia, 15-40  $\approx$  3-3,5, tandem exsiliencia et matricem albo-aspergentia.

13. *Cylindrosporium ulmicolum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 372. 3761

*Hab.* in foliis Ulmi alatae; Starkville Amer. bor. (TRACY). — Maculae flaventes; acervuli minuti, pallidi; hypophylli; conidia cylindracea, 45-65  $\times$  4, hyalina, multinucleata, in caespitulos albos minutos exeuntia.

14. *Cylindrosporium caryogenum* E. et E. New. Sp. North Am. Fung. 3762  
Acad. S. N. Philad. 1893, p. 168.

*Hab.* in foliis vivis Caryæ amaræ, London Canada (DEARNESS). — Maculae hypophyllæ, ex albo brunneæ; acervuli minuti, pallidi; conidia cylindracea, curvula, plurinucleata, 25-40  $\times$  3, demum exsiliencia.

15. *Cylindrosporium Quercus* Sorok. Paras. p. 126, l. XX, f. 220-222. 3765

*Hab.* in foliis dejectis Quercus in Caucaso. — Maculae hypophyllæ brunneo-marginatæ; acervuli innati, poro aperti; conidia 25-30  $\mu$ . longa, filiformia, copiosissima.

16. *Cylindrosporium acicolum* Bres. Hedw. 1894, p. 208. 3764

*Hab.* ad acus Pini silvestris, Königstein Saxonie (KRIEGER). — Conidia filiformia, hyalina, 57-70  $\approx$  1-1,5; basidia 30-45  $\approx$  1; conidia protrusa massam luteolam tremelloideam efficiunt.

## II. In Monocotyledoneis et Acotyledoneis

17. *Cylindrosporium Acori* Peck 46, Rep. p. 32. 3765

*Hab.* in foliis vivis v. languidis Acori Calami, Sandlake Amer. bor. — Maculae nigricantes; acervuli minuti, amphigeni; conidia 10-20  $\times$  4, hyalina, oblongo-cylindracea, in caespitulos albos exsiliencia.

18. *Cylindrosporium Calamagrostidis* E. et E. in Proceed. Acad. N. Sc. Philad. p. 460. (1893). 3766

*Hab.* in foliis vivis Calamagrostidis canadensis, Wisconsin Amer. bor. (DAVIS). — Maculae lineares, albæ, purpureo-marginatæ; acervuli epiphylli, seriatim, 150-200  $\mu$ . diam.; conidia filiformia, curva, 40-60  $\approx$  1,5-2, multinucleata, in massulas succineas exsiliencia.

19. *Cylindrosporium Glyceriæ* E. et E. in Proceed. Acad. N. Sc. Philad. p. 459 (1893). 3767

*Hab.* in foliis Glyceriæ nervatæ, Racine Wisconsin Amer. bor. (DAVIS). — Acervuli amphigeni, innati, minuti 100-150  $\mu$ . diam. in maculis elongatis, albidis, purpureo-marginatis siti; conidia cylindracea, 15-30  $\times$  2,5-3, nucleato-3-septata, hyalina, subrecta.

20. *Cylindrosporium Filicis-feminæ* Bres. Hedw. 1892, p. 41. 3768

*Hab.* in frondibus Athyrii Filicis-feminæ, Königstein

Saxonie. — Acervuli minutissimi, hypophylli, erumpentes, candidi; conidia flexuosa, granuloso-farcta, hyalina, 60-80  $\approx$  1,5.

**CRYPTOSPORIUM** Kunze. — Syll. III, p. 741, X, p. 506.

1. **Cryptosporium Vincæ** Otth Bern. Mittheil. 1868, p. 61.

3769

*Hab.* in foliis siccis Vincæ minoris, Bern Helvetiæ. — Pustulatum, nigrum, deplanatum, 1 mm. diam., perithecio nullo; conidia lineari-fusoidea, subsessilia, curva, 27-32  $\approx$  2,5 hyalina, demum libera.

**LIBERTELLA** Desm. — Syll. III, p. 745, X, p. 507.

1. **Libertella Rubi** Karst. Hedw. 1892, p. 294.

3770

*Hab.* ad ramos putrescentes Rubi odorati, Mustiala Fenniciæ. — Acervuli tecti, exigui; conidia filiformia, arcuata, aurantiaca, 30  $\approx$  1.

2. **Libertella parva** Fautr. et Lamb. in Rev. mycol. 1894, p. 161.

3771

*Hab.* in ramis siccis Carpinus Betuli, Côte-d'Or Galliæ. — Acervuli subcutanei, erumpentes; conidia fusioidea, curvula, 12-15  $\approx$  2, in cirros rudes inæquales succineos exsistentia.

## Sect. 6. Dictyosporæ

**PHRAGMOTRICHUM** K. et S. — Syll. III, p. 806, X, p. 509.

1. **Phragmotrichum Platanoidis** Otth Bern. Mittheil. 1870, p. 111.

3772

*Hab.* in ramulis Aceris platanoidis pr. Bern Helvetiæ. — Acervuli erumpentes, 1 mm. lat., fusco-nigri, plani conidiis dense obsiti; conidia 6-7-catenulata, absque isthmis invicem contigua, sursum majora, colorata, 4-5-septato-muriformia, flavido-brunnea, 16-23  $\approx$  8-10, terminalia 32  $\mu$ . longa.

# HYPHOMYCETÆ MARTIUS emend. Sacc.

Syll. IV, p. 1, X, p. 510.

Fam. 1. Mucedineæ Link em.

Sect. 1. Amerosporæ.

Subsect. 2. Micronemeæ SACC.

Trib. 1. CHROMOSPORIÆ Sacc.

**CHROMOSPORIUM** Corda — Syll. IV, p. 6, X, p. 510.

1. **Chromosporium lætum** Massee Journ. of Bot. 1892, p. 198, t. 325, 3773  
fig. 10.

*Hab.* in ramis emortuis arborum in India occident. — Effusum, pulvereum, lateritio-aureum; conidia obovata v. globosa, pallide carnea, levia, 8-11  $\mu$ . diam.

2. **Chromosporium humanum** Karst. Hedw. 1895, p. 9. 3774

*Hab.* supra stercus hominis exsiccatum pr. Mustiala Fenniae. — Effusum, aurantio-luteum; hyphæ nullæ; conidia 4-6  $\mu$ . diam.

3. **Chromosporium pallescens** C. et M. Grev. XXI, p. 1. 3775

*Hab.* inter muscos in insula Chatham Novæ Zelandiæ (Kirk). — Cæspituli brunneo-aurantii, pallescentes, subelliptici; conidia globosa, flavida, 4-5  $\mu$ . diam.

4. **Chromosporium fusarioides** Karst. Hedw. 1893, p. 61. 3776

*Hab.* in tuberibus Solani tuberosi in spiritu vini asservatis, Mustiala Fenniae. — Acervuli ceraceo-compacti e roseo aurantii; conidia sphaeroidea, levia, hyalina, 3-5  $\mu$ . diam.

**COCCOSPORA** Wallr. — Syll. IV, p. 9, X, p. 511.

1. **Coccospora rosea** Karst. Hedw 1892, p. 296. 3777

*Hab.* in Tricholomate saponaceo putri, Mustiala Fenniae. — Cæspituli effusi, ceracei, rosei; hyphæ breves, septatae, ramosæ, 6-10  $\mu$ . diam.; conidia sphaeroidea, levia, ex hyalino flavida, 27-30  $\mu$ . diam.

**COCCOSPORELLA** Karst. Symb. Myc. Fenn. XXXII, p. 9 (Etym. a *Coccospora*, cui affinis). — A *Coccospora* differt conidiis verrucosis.

1. **Coccosporella calospora** Karst. l. c.

3778

*Hab.* in *Clavaria decolorante* ad *Mustiala Fennia*. — Albida; conidia verrucis vesiculiformibus ornata, globosa, 22-36  $\mu$ . diam.

**MYCELIOPHTHORA** Cost. *Malad. blanc champ*. p. 2 (Etym. *mycelium* et *phtheiro* corrumpo). — Hyphæ steriles repentes, sursum ramulos conidiophoros simplices vel ramulosos apice sæpe inflatulos gerentes. Conidia solitaria acrogena, ovoidea.

1. **Myceliophthora lutea** Cost. l. c.

3779

*Hab.* in mycelio, quod destruit, *Agarici campestris*, *Parisii Gallia*, ubi *vert-de-gris* vulgo audit. — Fungillus filamentosus, lutescens; conidia ovoidea, 3-4  $\approx$  2, copiosissima, lutea.

**MASSOSPORA** Peck — Syll. IV, p. 10. — Observante jam cl. THAXTERO est potius *Entomophthoraceis* adscribendum genus.

1. **Massospora Richteri** Staritz et Bresad. Hedw. 1892, p. 41.

3780

*Hab.* intra corpus *Muscarum* sub foliis et graminibus jacentium, *Anhalt Germania*. — Massa sporarum (conidiorum) rubescens; conidia dimorpha, majora 53  $\mu$ . diam., minora 39  $\mu$ . diam., inaequaliter verrucosa.

2. **Massospora Staritzii** Bres. Hedw. 1892, p. 133.

3781

*Hab.* intra larvas insecti ignoti, *Anhalt Germania* (STARITZ). — Massa conidiorum pallide carnea, subglobosa 7  $\mu$ . diam., v. 9-11  $\approx$  7-9, laxè et subtiliter asperula.

**OPHIOCLADIUM** Cav. *Zeitschrift f. Pflanzenkrank.* 1893, p. 26 (Etym. *ophis* serpens et *clados* ramus). — Hyphæ fertiles fasciculatae, anguineo-tortuosae; conidia acrogena, hyalina, continua.

1. **Ophiocladium Hordei** Cav. l. c. t. I, f. 9.

3782

*Hab.* in foliis *Hordei sativi*, in *Longobardia*. — Acervuli minutissimi, rotundi, albi; hyphæ 20-30  $\approx$  3-4; conidia elliptico-ovoidea, 6-8  $\approx$  4,5, hyalina.

**SELENOTILA** Lager. *Berichte Deut. Bot. Gesell.* 1892, p. 531 (Etym. *selene* luna et *tilai* pulviscula). — Mycelium vix manifestum. Conidia fusoido-falcata, utrinque acutissima, continua, hyalina, bina v. terna inter se varie conjuncta, sed non catenulata.

1. **Selenotila nivalis** Lager. l. c. t. XXVIII, fig. 24-28.

3783

*Hab.* in nive sanguinea, *Pichinca Aequatoriae*. — Conidia 18-30  $\approx$  2-3, levia.

## Trib. 2. OOSPOREÆ Sacc.

## GLYCOPHILA Mont. — Syll. IV, p. 11.

- 1.
- Glycophila sulphurea*
- Karst. Symb. Myc. Fenn. XXX, p. 65.

3784

*Hab.* in cortice putri *Abietis excelsæ* ad Mustiala Fennicæ.  
— *Cæspituli* orbiculato-effusi, tomentosi, ex albo sulphurei; hyphæ pertenuæ 1-2  $\mu$ . cr., reticulatim connexæ; conidia ramulis seriatis inclusa, ex sphaeroideo cylindracea, 3-5-1-2, eguttata, hyalina.

OOSPORA Wallr. em. Sacc. — Syll. III, p. 11, X, p. 512. — Quoad *Oosporam Metschnikoffi* Sauv., *O. Guignardii* Sauv., *O. ? asteroidem* Sauv. (e typo *Streptotrichis* Cohn) cfr. Sauv. in Compt. rend. Acad. Sc. Par. 1892 (Mars).

- 1.
- Oospora rutilans*
- C. et Massee Grev. XXI, p. 39.

3785

*Hab.* ad fimum, Victoria Australiæ (MARTIN). — Effusa; crustacea, rubro-aurantia; conidia globosa, catenulata, 12  $\mu$ . diam., ex hyphis repentibus, hyalinis, tenuibus orientia.

- 2.
- Oospora castanea*
- Em. Marchal Contr. microb. fromag. Brux. 1895, p. 27, t. I, f. 4.

3786

*Hab.* in caseo nuncupato *Cassette* in Belgio. — *Cæspituli* amœne castanei, effusi, pulverei-velutini, senio crustacei; hyphæ repentes 5-12  $\mu$ . cr.; sporophora adscendentia continua 20-38 = 3-4; conidia catenulata, ovoideo-globosa, levia, utrinque truncata, 7-9 = 6-7,5, facile secedentia, ex hyalino brunnea.

- 3.
- Oospora destructor*
- (Metschnikoff) Delacr. in Bull. Soc. myc. 1893, p. 261, t. XIV, fig. II,
- Isaria*
- Metschnik.

3787

*Hab.* in larvis *Cleoni*, *Anisopliæ* etc., quas necat, in Russia et Gallia. — Ex albo virens, effusa, pulveracea; hyphæ steriles repentes, fertiles simplices v. parce ramosæ, obsolete septatæ, subhyalinæ, 3-3,5  $\mu$ . diam.; conidia catenulata, chlorina, cylindraceo-oblonga, utrinque rotundata, 7-15 = 2,5-3,3.

HALOBYSSUS Zuk. Mykol. Mittheil. p. 19 (Etym. *hals*, *halos*, sal et *byssus*). — Hyphæ steriles tenuissimæ, ramosæ, hyalinæ, fertiles crassiores in catenulas conidiorum ramosas abeuntes. Conidia sursum sensim crassiora, globosa, levia.

- 1.
- Halobysus moniliformis*
- Zuk. Mykol. Mittheil. p. 19, T. XII, f. 12.

3788

*Hab.* in sedimento aquoso salis (chloruri sodici) Vindobonæ. — Hyphæ steriles 2-3  $\mu$ . diam., fertiles 4-5  $\mu$ . diam.; conidia terminalia, catenulata, 6-7  $\mu$ . diam., hyalina.

**SACHSIA** C. Bay, Berichte deutsch. bot. Gesell. 1894, p. 90 (Etym. ab ill. J. SACHS).

1. **Sachsia albicans** C. Bay in Bericht. deutsch. bot. Gesellsch. 1894 3789 p. 90 c. icone. — Fere procul dubio forma *Oosporæ lactis*, quæ ab *Oospora* seu *Saccharomycele Mycodermate* v. *albicante* vix vel non differt.

**FUSIDIUM** Link — Syll. IV, p. 25, X, p. 515.

1. **Fusidium candidulum** Sacc. sp. nov. — Effusum, album, pruinose, 3796 hyphis sterilibus repentibus, ramosis, continuis; fertilibus erectis, simplicibus v. e basi furcatis, sursum tenuatis, 22-26  $\approx$  2, continuis, hyalinis; conidiis teretiusculis v. fusoidis utrinque obtusulis, passim curvulis, ex hyalino dilutissime chlorinis, 8-10  $\approx$  2,5.

*Hab.* in superficie seminum odorum *Æsculi Hippocastani* Lyndonville N. Y. Amer. bor. (Doct. C. E. FAIRMAN).

**MONILIA** Pers. — Syll. IV, p. 31, X, p. 516.

1. **Monilia urediniformis** E. et E. Proceed. Acad. N. Sc. Phil. 1893, 3791 p. 461.

*Hab.* in fructibus semi-maturis Piri Mali, Newfield N. J. Amer. bor. — Erumpens, densa, aurantiaca; hyphæ fasciculatæ ramosæ, in conidia versiformia, 15-80  $\approx$  12-30, catenulata, mox secedentia, isthmis carentia abeuntes; conidia guttis pluribus 3-10  $\mu$ . diam. fœta.

2. **Monilia javanica** Went et Prinsen Geerlings Over Suiker-en Al. 3792 coholvorming etc. p. 15, t. II, f. 9 et Beobacht. Aarekfabr. 1895, p. 8, t. I.

*Hab.* in *Oryza fermentescenti*, Kagok-Tegal in Java. — Hyphæ hyalinæ, septatæ, fasciculatæ, parce vage ramosæ; conidia in ramis subtorulosis acrogena inæqualiter ellipsoidea, 5-8  $\mu$ . longa, hyalina. « Dubia species ».

**CYLINDRIUM** Bon. — Syll. IV, p. 36, X, p. 518.

1. **Cylindrium effluens** Karst. Hedw. 1892, p. 318.

3793

*Hab.* in ramis putrescentibus Piri et Tilix, Mustiala-Fennix. — Acervuli pulvinati, mucoso-ceracei, albi, sicci pulverei et candidi; conidia cylindracea, 22-32  $\approx$  3-5,5.

**GEOTRICHUM** Link — Syll. IV, p. 39.

1. *Geotrichum bipunctatum* Roll. et Fautr. Rev. Mycol. 1894, p. 72, 3794 tab. CXLI, f. 3. — Cæspitulis albis, plus minus sparsis; hyphis hyalinis in catenulas conidiorum cylindricorum, truncatorum abeuntibus; conidiis sæpius 2-guttulatis.

*Hab.* ad Sclerotium Clavum Glyceriæ fluitantis putrescentis, Côte-d'Or in Gallia. — A *Geotricho candido* conidiis bi-guttulatis differt.

*Subsect. 2. Macronemææ* Sacc.

*Trib. 3. CEPHALOSPORIÆÆ* Sacc.

**ŒDOCEPHALUM** Pr. — Syll. IV, p. 47, X, p. 521.

1. *Œdocephalum asperum* Karst. Symb. Myc. Fenn. XXX, p. 66. 3795

*Hab.* in cortice Abietis excelsæ vetusto pr. Mustiala Fenniciæ. — Cæspituli orbiculares v. effusi, pulverei, olivascentes; hyphæ fertiles simplices, continuæ, sursum incrassatæ, fulvo-violascentes, capitulo 60  $\mu$ . diam.; conidia sphæroidea, concoloria, 7-11  $\mu$ . diam., muriculata.

2. *Œdocephalum Bergrothi* Karst. Hedw. 1892, p. 183. 3796

*Hab.* in insecto Homœocero mundo in insula Borneo capto. — Cæspituli effusi, sordide grisei; hyphæ steriles repentes, fulvæ, 4-7  $\mu$ . cr. ramosæ; fertiles erectæ, simplices 200  $\approx$  4-6, apice vesicula fulvida, 60-70  $\mu$ . diam., terminatæ; conidia sphæroidea, sublevia, 4-6  $\mu$ . diam., ex hyalino fulvella.

3. *Œdocephalum minutissimum* Karst. in Hedw. 1892, p. 182. 8797

*Hab.* in insecto Platylato ambiguo ex insula Madagascar. — Vix conspicuum; hyphæ steriles repentes, hyalinæ, parce septatæ, 7-15  $\mu$ . cr.; fertiles erectæ simplices parce septatæ, hyalinæ, 145  $\approx$  6, vesicula albida 30-40  $\mu$ . diam.; conidia ellipsoideo-sphæroidea, levia, eguttulata, hyalina, 6-10  $\mu$ . diam. v. 12  $\approx$  8.

4. *Œdocephalum Vuilleminii* Sacc. *Asterigma*... Vuill. Polym. Peziz. 3798 p. 5-6, t. X, f. 21-24.

*Hab.* in Pezizæ spec. Aleuria *Asterigma dicta* pr. Nancy. — Ex albo ochracea, pulverea, effusa; hyphæ fertiles cylindraceæ, 3-septatæ, 200-250  $\mu$ . longæ; vesicula 25  $\mu$ . diam., muriculato-verruculosa; conidia ovoidea 6,5  $\approx$  3, ochracea levia. — Teste cl. Vuillemin, species est metagenetice connexa cum *Peziza*.

**RHOPALOMYCES** Corda — Syll. IV, p. 50, X, p. 523.



1. **Rhopalomyces magnus** Berl. Bull. Soc. myc. 1892, p. 109, t. X, 3799 f. 25-28.

*Hab.* in pileo Auriculariæ mesentericæ udo, sub campana vitrea diu servato, Avellino Ital. merid. — Hyphæ fertiles erectæ, rigidæ, 1200-1600  $\approx$  12-15, solitariae, continuæ, subhyalinæ; vesicula globosa denticulata, 40-46  $\mu$ . diam.; conidia obovata, 48-52  $\approx$  25, olivascentia.

2. **Rhopalomyces macrosporus** Em. Marchal Rev. Myc. 1893, p. 7-10, 3800 t. CXXXII, f. 5-8.

*Hab.* in fimo equino in Belgio. — Atro-brunneus, effusus; hyphæ steriles, hyalinæ, tenues, 2-3,5  $\mu$ . cr., radiantes; fertiles continuæ, cylindricæ, 2000-3000  $\approx$  40-50; vesicula 160-200  $\mu$ . diam., minime areolata; conidia fusoideo-ellipsoidea, apice mucronata, 75-85  $\approx$  20-25, sæpe 1-guttata.

#### **HAPLOTTRICHUM** Link — Syll. IV, p. 53.

1. **Haplotrichum fructigenum** Karst. Symb. Myc. Fenn. XXXII, p. 9. 3801

*Hab.* in fructibus vivis, quos infestat, Fragariæ vescæ pr. Mustiala Fennicæ. — Hyphæ fertiles virescentes, usque 2 mm. altæ, septatæ, capitulo sphæroideo incano; conidia 9-13  $\approx$  6-8 v. 6-7  $\mu$ . diam., hyalina, levia.

#### **CEPHALOSPORIUM** Corda — Syll. IV, p. 56, X, p. 523.

1. **Cephalosporium repens** Sorok. Paras. p. 43, t. VIII, f. 93-94. 3802

*Hab.* in superficie radicûm putridarum Vitis viniferæ, Batum in Caucaso. — Hyphæ steriles, repentes, inæqualiter ramosæ; ramuli apice capituligeri; conidia viridula, elongata, 10-12  $\approx$  2, utrinque acutata, in capitulum mucosum collecta.

2. **Cephalosporium Dutertri** Richon Bull. Soc. Myc. 1892. pag. 60, 3803 t. VIII.

*Hab.* in bulbis Allii Cepæ in cella, Vitry-le-François Galliae (DUTERTRE). — Effusum, pallide fuscum, demum fusco-nigrum; hyphæ steriles repentes, parce septatæ, ramulosæ; ramuli acuti capituliferi; capitula globosa 60  $\mu$ . diam.; conidia ellipsoidea, albo-flavida, 14  $\mu$ . longa.

#### *Trib. 4. ASPERGILLEÆ* Sacc. .

#### **ASPERGILLUS** Mich. — Syll. IV, p. 64, X, p. 524.

1. **Aspergillus Quininæ** Heim Bull. Soc. mycol. 1894, p. 239.

*Hab.* in superficie soluti Chinini sulphurici in Gallia. — Floccosus albus, inde pelliculosus; hyphæ fertiles 3,5  $\mu$ . cr.; septatæ; vesicula sphaerica 7-6  $\mu$ . diam.; conidia 3,5  $\mu$ . diam., globosa, levia, chlorina, basidiis gracilibus suffulta.

2. *Aspergillus terricola* March. Rev. Myc. 1893, p. 101-3.

3804

*Hab.* ad terram humosam horti botanici Bruxelles Belgii. — Hyphæ steriles effuso-intricatæ, hyalinæ, 2-5  $\mu$ . cr.; fertiles subcontinuae, vesicula 30-50  $\mu$ . diam.; basidia crabra ellipsoidea, 12-15  $\times$  4-7; conidia globosa, eximie umbrina, muriculata, isthmo brevi hyalino connexa; longe catenulata.

3. *Aspergillus Oryzæ* (Ahlbury) F. Cohn. Cfr. Wehmer *Asp. Oryzæ* 3806  
der Pilz der jap. Saké-Brauerai pag. 150 etc. tab. I, *Eurotium*  
Ahlbury.

*Hab.* in caryopsidibus *Oryzæ* fermentescentibus japonicæ cerevisiæ *Saké*. — Hyphæ repentes, tenues, septatæ, fertiles erectæ simplices, continuæ, 1-3 mm. alt., 10-30  $\mu$ . cr., vesicula subglobosa 60-80  $\mu$ . diam.; conidia ex flavo virentia, globosa, levia v. asperula, 6-7  $\mu$ . diam., longe catenulata, sterigmatibus tereti-conoideis 20-25  $\mu$ . longis suffulta. Cfr. optimam illustrationem citatam Dris Wehmer.

4. *Aspergillus sulphureus* Desm. Pl. crypt. exs. n. 554 [in Herb. 3807  
Brux.], Sacc. F. herb. Brux. n. 40. — Cæspitulis minutis albis demum sulphureis, capitulo sphaerico; stipite simplici, erecto, continuo, hyalino; conidiis subglobosis, 3  $\times$  2,5.

*Hab.* in charta communi grisea, humida in Gallia (SANGERES). — Basidia in exemplaribus jam obsoletis videre non contigit, hinc dubium an species potius *Sterigmatocystem* spectet.

5. *Aspergillus brunneus* Delacr. Bull. Soc. Myc. 1893, p. 185, t. XI, 3808  
fig. 3.

*Hab.* in gelatina saccharata in laboratoriiis, Parisiis. — Glauescens, dein atro-brunneus, effusus; hyphæ steriles repentes, septatæ, hyalinæ; fertiles erectæ sursum 15  $\mu$ . cr., vesicula sphaeroidea, 60  $\mu$ . diam.; basidia cylindraceo-fusoidea, 12-18  $\times$  5-7; conidia globosa, echinulata 15  $\mu$ . diam. fusca.

6. *Aspergillus echinosporus* Sorok. Paras. p. 40, t. VII, f. 82-87. 3809

*Hab.* ad radices putrescentes *Vitis viniferæ* pr. Batum in Caucaso. — Totus nigrescens; hyphæ continuæ apice in vesiculam inflatæ; basidia papilliformia, brevica; conidia longe catenulata, sphaerica, grosse muricata, isthmis connexa et capitulum mucosum obductum formantia.

**STERIGMATOCYSTIS** Cram. — Syll. IV, p. 71; X, p. 524.

1. *Sterigmatocystis spuria* Schröt. Pilze Schles. p. 218.

3810

*Hab.* in gelatina, aere ablato, Breslau Silesiæ. — Carnea, dein subochracea; hyphæ fertiles 0,5 mm. alt., 10  $\mu$ . cr., ex hyalino rufo-brunneæ; vesicula sphaerica; basidia laxa, nunc simplicia, nunc basidia secundaria gerentia; conidia globosa, 3-4  $\mu$ . diam., levia, læte rubella v. flavida.

2. *Sterigmatocystis Rehmii* (Zuk.) Sacc. *Aspergillus Rehmii* Zuk. 3811  
Mykol. Mittheil. p. 1, T. XI, f. 1-10 (in Bot. Zeitschr. 1893).

*Hab.* in cortice molito putrescenti et gallis *Quercus*, Austria. — Mycelium repens, intertextum, ex sulphureo ochraceum; hyphæ fertiles 400-500  $\approx$  5, levès, concolores; vesicula oblongo-ovata, 30  $\approx$  20; basidia primaria clavata 6  $\approx$  2-3, secundaria fusioidea, quaterna 4  $\approx$  1,5; conidia longe catenulata, globoso-polyhedrica, flavida, levia, 2,5-3  $\mu$ . diam.

**PENICILLIUM** Link — Syll. IV, p. 78, X, p. 527.

1. *Penicillium italicum* Wehmer. Eine neue Sklerotien-bildende *Pe-* 3812  
*nicillium* species in Hedw. 1894, p. 211.

*Hab.* in fructibus *Citri Aurantii* et *C. deliciosæ* (Mandarini) ex Messina Siciliæ, quibus putrescentiam inducit. *Habitus P. glauci* sed conidia ellipsoidea, 4-5  $\approx$  2-3 etc.

2. *Penicillium luteum* Zukal Entwickl. Ascom. p. 42, t. IV, Wehmer 3813  
in Berichte d. deut. bot. Gesellsch. 1893, p. 409, t. XXV.

*Hab.* in cortice gallisque molitis *Quercus* in Austria. — Atro-flavo-virens; hyphæ fertiles simplices, septatae, apice bis 3-4-cho-tome erecto-ramosæ, ramis acutis; conidia ellipsoidea, longe cate-nulata, 2,3  $\approx$  1,4, griseo-viridula, levia; conceptacula ascigera 0,5-2 mm. long., globulosa vitellina dein rubra; asci rubelli, globoso-piriformes 8,8  $\approx$  7-7,8; sporidia octona, conglobata, 4,8  $\approx$  3,3 trans-verse 3-costulata ex hyalino rubescentia. — Species manifeste ad Ascomycetes referenda.

3. *Penicillium flavo-virens* Cooke et Mass. Grev. XX, pag. 106. — 3814  
Caespitulis densis, effusis, floccosis, flavo-virentibus; hyphis steri-libus repentibus, intricatis, fertilibus assurgentibus, suberectis, ad apicem bifurcatis, strictis; conidiis concatenatis, ellipticis, minutis, hyalinis, 3-4  $\approx$  1.

*Hab.* in fructibus *Terminaliæ belericæ*, Ceylon (THWAITES).

**CITROMYCES** Wehmer. Ueb. Citronensäure-Gährung p. 2 et in Be-

richte d. deutsch. bot. Gesell. 1893, p. 333 (Etym. *citrus* et *myces*). — Genus habitu et characteribus fere *Penicillii*, sed basidiis diversis et præcipue ob fermentationem acidi citrici, quam efficit, distinguendum. Species sunt: *C. glaber* Wehmer, l. c. et *C. Pfefferianus* Wehmer, l. c.

**GLIOCLADIUM** Corda — Syll. IV, p. 84, X, p. 528.

1. *Gliocladium viride* Matr. Bull. Soc. Myc. 1893, p. 249.

3815

*Hab.* in pileo *Clitocybis* putrescentis pr. Bonniers Gallia.  
— Virens; hyphæ fertiles breves basi rhizinis penicillatis præditæ, capitulum mucosum viride apice ferentes, 12  $\mu$ . cr.; basidia pluries ramosa (ad instar *Penicillii*) apice conidia ovoidea, 3-6  $\mu$  2-3, primo catenulata, mox mucò coalescentia.

**BRIAREA** Corda — Syll. IV, p. 85.

1. *Briarea ramealis* Karst. Symb. Myc. Fenn. XXX, p. 65.

3816

*Hab.* in ramis salicinis putridis, Mustiala Fennia. — Cæspituli pulvinati, densi, molles, e lutescenti argillaceo-cervini, 0,5-2 mm. diam.; hyphæ fertiles septatæ, parce ramosæ, 3-5  $\mu$ . cr., ramulis patentibus; conidia catenulata, sphæroideo-ellipsoidea, 3-5  $\mu$ . diam., v. 5-6  $\mu$  3.

**OLPITRICHUM** Atkinson Bot. Gaz. 1894, pag. 244 (Etym. *olpis* ampulla et *thrix* hypha). — Hyphæ saprogenæ, steriles repentes, septatæ, ramosæ; fertiles erectæ simplices v. parce ramosæ, septatæ, apice inflato-ampulliformes, ampullis subinde proliferis, monosporis. Conidia ovoideo-oblonga, hyalina v. pallide colorata. — Genus *Rhinotricho*, quocum sæpe crescit, proximum.

1. *Olpitrichum carpophilum* Atk. l. c. t. XXIII.

3817

*Hab.* in fructibus putridis Gossypii herbacei, Alabama Amer. bor. — Album, effusum; hyphæ 3-7-septatæ, 90-180  $\mu$  4-6; basidia ampulliformia, 10-15  $\mu$  3-6; conidia 25-30  $\mu$  16-25, basi apiculata, hyalina.

*Trib. 5. BOTRYTEÆ* Sacc.

**SPOROTRICHUM** Link em. — Syll. IV, p. 96, X, p. 532.

1. *Sporotrichum amenti* Karst. Hedw. 1892, p. 296.

3818

*Hab.* in amentis emortuis Alni incanæ ad Mustiala Fennia.  
— Effusum, tenuissimum, album; hyphæ tenerrimæ, evanidæ, 1  $\mu$ . cr., conidia copiosissima, ovoidea, levia, guttata, alba, 2,5-7  $\mu$  1,5-2.

2. **Sporotrichum obducens** Allesch. in P. Henn. Fung. goyaz. p. 115. 3819  
*Hab.* in foliis putridis Leguminosæ cujusdam, Goyaz Brasiliæ (ULE). — Late effusum, candidum, incrustans; hyphæ intricatæ, ramosæ, hyalinæ; conidia ovata v. oblonga, eguttata, hyalina, 7-15 × 3-5.
3. **Sporotrichum coronans** Karst. Hedw. 1892, p. 298. 3820  
*Hab.* in ostiis perithecorum Roselliniæ mammiformis pr. Mustiala Fennicæ. — Cæspituli pulvinati, densi, albi, exigui; hyphæ ramosæ, septatæ, tenerimæ, 3-5  $\mu$ . cr.; conidia globoso-ellipsoidea, 4-6  $\approx$  3, eguttata, hyalina.
4. **Sporotrichum microspermum** Karst. Hedw. 1892, p. 298. 3821  
*Hab.* in squamis conorum Abietis excelsæ ad Mustiala Fennicæ. — Cæspituli pulvinati, mox effusi, velutini, albi; hyphæ ramosæ, septatæ, flexuosæ, 5-6  $\mu$ . cr.; conidia globoso-ellipsoidea, 2-2,5  $\approx$  1, eguttata, hyalina.
5. **Sporotrichum parasiticum** Peck 45 Rep. p. 22. 3822  
*Hab.* ad tumores Prunorum ex Plowrightia morbosa, Menands Amer. bor. — Effusum, tenue, album; hyphæ inæqualiter ramosæ; conidia minuta, ellipsoidea, 3-4  $\approx$  2.
6. **Sporotrichum terrestre** Karst. Symb. Myc. Fenn. XXX, p. 66. 3823  
*Hab.* in cavernulis ad terram arenoso-humosam, Mustiala Fennicæ. — Late effusum, niveum, pulvereum; hyphæ repentes, ramosæ, septatæ, 10-22  $\mu$ . cr., ad septa sæpe constrictæ; conidia sphæroidea, levia, 4-5  $\mu$ . diam.
7. **Sporotrichum fossarum** Fautr. Rev. Myc. 1895, p. 71. 3824  
*Hab.* ad terram e fossis excavatam, Côte-d'Or Galliæ. — Hyphæ albæ, repentes, septatæ, ramosæ; conidia 4-5  $\mu$ . diam., globosa, hyalina.
8. **Sporotrichum glaucum** Karst. Hedw. 1895, p. 9. 3825  
*Hab.* supra spicam Tritici sativi Tilletia necati, pr. Mustiala Fennicæ. — Effuso-pulvinatum, glaucum; hyphæ hyalinæ 2-3  $\mu$ . crass.; conidia 3  $\approx$  2, pallida.
9. **Sporotrichum myriosporum** Karst. Symb. Myc. Fenn. XXXI, p. 74. 3826  
*Hab.* ad pileum Porie obliquæ, Mustiala Fennicæ. — Cæspituli deformes, crassi, pulvereo-compacti, virenti-cærulei; hyphæ repentes, septatæ, ramosæ, 6-9  $\mu$ . diam.; conidia copiosissima, 4-6  $\approx$  3-3,5. — *Sp. æruginosum* Schw., Syll. IV, 112, sec. Karst. l. c.: conidia sphæroidea hyalina, 4-5  $\mu$ . diam.; hyphæ virentes, 3  $\mu$ . cr. (In cortice Betulæ, Mustiala).
10. **Sporotrichum cærulescens** Karst. Hedw. 1895, p. 9. 3827

*Hab.* in spica Triticæ sativi *Tilletia necati* pr. Mustiala Fennicæ. — Effusum, cœrulescens; hyphæ hyalinæ 1  $\mu$ . crass.; conidia 2-3  $\mu$  1. pallida.

11. *Sporotrichum Gunneræ* Oud. Contrib. Fl. myc. Pays-Bas XV, 3828 p. 18. — Cæspitulis semiglobosis, ex albido-niveis pallide ochraceis, 1-2 mm. lat., superficialiter laxè pulverulentis conidiorum agglomeratione; hyphis hyalinis, variegatis ramosis, septatis subtilissimis; conidiis incoloribus, ovatis v. piriformibus 3,5  $\mu$  2,5.

*Hab.* ad Gunneram scabram putrescentem cultam, Amsterdam.

12. *Sporotrichum isabellinum* Karst. Hedw. 1892, p. 296. 3820

*Hab.* in pileo Polypori destructoris pr. Mustiala Fennicæ. — Effusum, penetrans et destruens, pulvereum, isabellinum; hyphæ subsimplices, continuæ, 3-5  $\mu$ . cr.; conidia globoso-ellipsoidea, flavescenti-hyalina, levia, 5-7  $\mu$  3-5.

**BOTRYTIS** Mich. — Syll. IV, p. 116, X, p. 536.

1. *Botrytis asperula* Karst. Hedw. 1892, p. 299. 3830

*Hab.* in cortice Populi tremulæ vetusto, Mustiala Fennicæ. — Cæspituli effusi, lanei, albi; hyphæ steriles repentes, ramosæ, septatæ, asperulæ, flavidæ, usque 15  $\mu$ . cr., fertiles erectæ breve verticillato-ramosæ, apicibus inflatis submuricatis; conidia sphaeroidea, hyalina, eguttata, 3-4  $\mu$ . diam. E sect. *Phymatotrichi*.

2. *Botrytis doryphora* Pound et Clem. Bot. Surv. Nebr. Rep. III, 3831 1893, pag. 11.

*Hab.* in foliis Pelargonii, Lincoln Nebraska Amer. bor. Alba; arachnoidea, dein compactior, obscurior; hyphæ prælongæ, erectæ, septatæ, sursum parce ramosæ; ramis rectangulis, sursum dilatatis; conidia ellipsoidea, alba, dense capitata, 5  $\mu$  2,5. E sect. *Polyctidis*.

3. *Botrytis pannosa* E. et E. New sp. North Am Fung. in Proceed. Acad. S. N. Philad. 1893, p. 168. 3832

*Hab.* in trunco putri Aceris, Washington Amer. bor. (Miss PARKER). — Effusa, intricata, brunnea; hyphæ subcontinuae, subopposite ramosæ, extremitatibus subinflatis, spiculiferis; conidia ovoidea, hyalina, 5-6  $\mu$  3-3,5.

4. *Botrytis viridans* Pat. Bull. Soc. Myc. 1893, p. 161. 3833

*Hab.* in ligno putrescenti in horto botanico Quito Æquatoriæ (LAGERHEIM). — Longitudinaliter effusa, tomentosa, viridi-olivacea; hyphæ septatæ, subtorulosæ, ramosæ, 8-10  $\mu$ . cr.; fertiles erectæ

fasciculatæ, 300-500  $\approx$  8-20, apice ramosæ, ramulis subverticillatis; conidia 6-8  $\approx$  3, levia, hyalino-viridia.

5. *Botrytis affinis* E. et E. New sp. North Am. Fung. in Proceed. 3834  
Acad. S. N. Philad. 1893, p. 169.

*Hab.* in ligno decorticato Fraxini, London Canada (DEARNES).  
— Velutina, effusa, atro-olivacea; hyphæ erectæ obscure septatæ, muriculato-rugosæ, 4  $\mu$ . cr. dichotome ramosæ, ramis ultimis brevibus suboppositis, apice ruguloso-sporigeris; conidia glomerata olivaceo-brunnea, globosa v. ellipsoidea, 4-5  $\mu$ . long.

6. *Botrytis aurantiaca* Trog Bern. Mittheil. 1857, p. 44. 3835

*Hab.* in unguento Cantharidum in Helvetia. — Hyphæ aurantiacæ, repentes, intricatæ, subsimplices; conidia citrina in globulos collecta, basidiis brevissimis suffulta.

7. *Botrytis Epichloes* Ell. et Dear. New Spec. Canad. Fung. in Canad. Rec. Sc. 1893, p. 272. 3836

*Hab.* parasitice in stromate Epichloës typhinæ, London Canada. — Effusa, olivacea; hyphæ subramosæ, subgeniculatæ, torulosæ, 25-40  $\approx$  2,5-3; conidia acro-pleurogena, fusoides-oblonga, hyalina, 8-12  $\approx$  3, nucleata.

8. *Botrytis torta* Ell. et Ev. Proc. Acad. Phil. 1894, p. 375. 3837

*Hab.* in foliis Caricis Fraseri, Nuttallburg Virginiae occid. (NUTTALL). — Hyphæ simplices v. parce ramosæ, spiraliter tortæ brunneæ, 80-100  $\approx$  3-4, amphigenæ, cæspitulos brunneo-nigros formantes; conidia ellipsoidea, brunnea, 3-6,5-3-3,5, — « An vera *Botrytis*? ».

9. *Botrytis Muscæ* Rostr. De in Danmark paa Leddyr optroedende etc. 3838  
Kjöb. 1893, in Botan. Centralb. 1891, Vol. LVII, p. 185.

*Hab.* ad Muscas in Dania. — Forte status conidicus *Cordycipitis* sp. — An eadem sit *Botrytis muscaria* Trog, Bern. Mittheil. 1857, pag. 44 (ad Muscas domesticas in Helvetia) ignoro.

## OVULARIA Sacc. — Syll. IV, p. 139, X, p. 510.

1. *Ovularia Vancouveriæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 375. 3839

*Hab.* in foliis Vancouveriæ (Epimedium) hexandræ, Cazadero California (BLASDALE). — Maculæ amphigenæ, atræ-brunneæ, infra pallidiores; hyphæ hypophyllæ, fasciculatæ, 30-35  $\approx$  3, albæ; conidia ex ellipsoideo oblonga, 10-20  $\approx$  4-6, mox albo-pulverulenta.

2. *Ovularia Brassicæ* Bres. et Allesch. in Allesch. Verz. Süd-Bay. 3840  
III, p. 94.

*Hab.* in foliis vivis Brassicæ Napi var. esculentæ in hortis Oberammergau Baviaræ sup. — Maculæ amphigenæ, albæ, marginatæ; hyphæ filiformes, flexuosæ, hyalinae, 60-80  $\approx$  2-3; conidia ovata, hyalina, 6-8  $\times$  3-4.

3. *Ovularia exigua* (W. Sm.) Sacc., *Peronospora* W. Sm. *Diseas.* p. 12 cum icon. 3841

*Hab.* in foliis Trifoliorum et Lotorum in Britannia. — Hyphæ candidæ, flexuosæ, parce ramulosæ, 1-3-septatæ, lateraliter laxè muriculato-sporigeræ; conidia globoso-ellipsoidea, 8  $\approx$  6-7, levìa, hyalina, basi apiculata. — « Re vera non v. vix diversa ab *Ov. sphæroidea* Sacc. »

4. *Ovularia circumscissa* Sorok. *Paras.* p. 121, t. XIX, f. 201-203. 3842

*Hab.* in foliis Prunorum pr. Batum in Caucaso. — Maculæ subcirculares, subroseæ, margine saturatiore, demum circumscissæ et dilabentes; hyphæ fasciculatæ, brunneolæ; conidia oblonga, continua, chlorina, 15-18  $\times$  6-7. Analoga *Cercosporæ circumscissæ* et pariter noxia.

5. *Ovularia Oxalidis* Oud. *Contrib. Fl. myc. Pays-Bas.* XV, p. 18. — 3843  
Biogena; hyphis fertilibus erectis v. adscendentibus, simplicibus, apice conidiis coronatis; conidiis hyalinis, continuis, ellipticis, 32-36  $\times$  16-13.

*Hab.* ad epiphyllum foliorum *Oxalidis tropæoloidis* cultæ Amsterdam in Nederlandia.

6. *Ovularia caduca* Voss *Myc. Carn.* IV, p. 283. — Maculis rotundis v. ellipticis, griseis, demum flavis, fusco-marginatis, nitidis; hyphis hypophyllis, tenellis, parce septatis, hyalinis; conidiis ovoideis v. cylindraceis, utrinque rotundatis, continuis, hyalinis, 6-11  $\approx$  2-3. 3844

*Hab.* in foliis vivis *Circææ lutetianæ* in Carniolia.

7. *Ovularia Asperifolii* Sacc. *Syll.* IV, p. 142. — var. *Symphyti tuberosi* Allesch. *Hedw.* 1894. p. 73. — Hyphis crassiusculis, parce septatis, sursum denticulatis; conidiis ovatis, dein oblongis v. subfusiformibus, multiguttulatis seu nubilosis, rarius biguttatis, utrinque sæpe acutiusculis, basi subapiculatis, continuis, hyalinis, 9-24  $\times$  3-6. 3845

*Hab.* in pagina inferiore foliorum *Symphyti tuberosi*, in Bavaria. — Ad *Ovulariam farinosam* (Bon.) Sacc. *Syll.* IV, p. 142 spectat verisimillime *Ramularia farinosa* (Bon.) Sacc. *Syll.* IV, p. 206, observante cl. Allescher.

8. *Ovularia Stachydis* Bres. *Hedw.* 1894, p. 209.

*Hab.* in foliis *Stachydis palustris* pr. Königstein Saxoniae 3846



(KRIEGER). — Conidia obovato-elongata 11-24 × 5-6; hyphæ 40-45 ≈ 3-3.5.

9. *Ovularia Robiciana* Voss Myc. Carn. IV, p. 283. — Maculis flavis, hypophyllis; caespitulis tenuibus albis; hyphis fasciculatis, flexuosis, brevibus, hyalinis, simplicibus; conidiis ovoideis, utrinque rotundatis, continuis, hyalinis, 10-11 ≈ 6.

*Hab.* in foliis vivis Betonicæ Alopecuri in Carniclia.

10. *Ovularia Sommeri* (Eichelbaum) Sacc. Grev. XXI, p. 68. t. 184, f. 14. *Sphaeria? Sommeri* Eich., Bot. Centralb., 1887, I, p. 378. — Caespitulis dense gregariis, albidis, ex basi stromatica, cellulari pulvinata, erumpente, oriundis; hyphis simplicibus, subcontinuis, fasciculatis, filiformibus, sursum obtuse denticulatis, 50-60 ≈ 5; conidiis obovatis, continuis, basi subapiculatis, 18 ≈ 9.

*Hab.* in apice ramulorum juniorum Myricæ Gales, Eppendorfer Moor, pr. Hamburg, Majo, 1884 (F. EICHELBAUM). — Caespituli, confluyendo, ramulos late per 3-4 cm. ambiunt et mox necant. Verisimiliter, ut cl. Eichelbaum censet, species sistit statum conidicum cujusdam *Sphaeriaceæ*.

11. *Ovularia Holci-lanati* Cav. Fung. Long. ex. III, 144. 3849

*Hab.* in foliis Holci lanati prope Pavia Ital. bor. — Maculae ferrugineæ, minutæ; caespituli hypophylli, inconspicui; hyphæ erectæ filiformes, simplices, haud denticulatæ, continuæ v. obsoletæ 1-2-septatæ, hyalinæ, 170 ≈ 2; conidia 16-27 ≈ 6-10, solitaria, ovato-oblonga, eximie muriculata.

Tribus 6. VERTICILLIÆ Sacc.

VERTICILLIUM Nees — Syll. IV, p. 150, X, p. 545.

1. *Verticillium effusum* Otth Bern. Mittheil. 1870, p. 112. 3850

*Hab.* in foliis adhuc vivis Centauræ Jaceæ pr. Bern Helvetiæ. — Hypophyllum, albido-fulvens; hyphæ steriles repentes, fertiles erectæ, scabridæ, remote septatæ, ramosæ; ramuli ultimilageniformes, 3-4-verticillati; conidia singulatim acrogena, globosa, 3.5 µ. diam.

2. *Verticillium Berkeleyanum* Karst. Symb. Myc. Fenn. XXX, p. 64. 3851

*Hab.* in Stereo hirsuto, socio st. ascoporo *Hypomycete Berkeleyano*, pr. Mustiala Fennia. — Hyphæ septatæ, tenues ter verticillato ramosæ, albæ dein ochraceæ, 2-4 µ. cr.; conidia oblongo-ellipsoidea 6-8(raro 12) × 2-5, utrinque obtusa.

3. *Verticillium sphærophilum* Peck 43 Rep. p. 33. 3852

*Hab.* in Hypoxylo coccineo, Shokan Amer. bor. — Hy-

phæ cæspitulos minutos stellatos, albos sistentes, parce (1-3)-verticillato-ramosæ; conidia ellipsoidea,  $7 \approx 3,5$ .

4. **Verticillium Aphidis** Rostr. in Botan. Centralbl. 1894, Vol. LVII, 3853 p. 185.

*Hab.* in Aphidibus, quos necat, in Dania. Sistit cæspitulos albidos, forte *Cordycipitis* speciei status conidicus.

**VERTICILLIOPSIS** Cost. Malad. blanc d. Champ. p. 2 (Etym. a *Verticillio*, cui affinis). — Hyphæ fertiles ramis verticillato-ternis vel oppositis instructæ; rami fertiles in articulos clavatos binos abeuntes, altero ex altero rectangulariter oriundo apiceque conidio-phoro; conidia continua, hyalina.

1. **Verticillioipsis infestans** Cost. l. c.

3854

*Hab.* in mycelio, quod vexat, Agarici campestris, Parisiis Galliæ. — Alba, pulverea (unde nomen vulg. *plâtre*); conidia reniformia vel ovalia vel cuneata,  $4 \approx 2$ , hyalina.

**CYLINDROCLADIUM** Morg. Bot. Gaz. 1892, p. 191 (Etym. *cylindros* et *clados* ramus). — Hyphæ steriles repentes, fertiles erectæ, dichotomicè ramosæ, septatæ; basidia in apice ramorum subterna, fusioidea; conidia cylindracea, 1-septata.

1. **Cylindrocladium scoparium** Morg. l. c. cum icon.

3855

*Hab.* in leguminibus vetustis Gleditschiæ Triacanthi, Ohio in Amer. bor. — Album, effusum; conidia cylindracea, apice obtusa,  $40-50 \approx 3-4$ , medio 1-septata, hyalina.

**ACROSTALAGMUS** Corda — Syll. IV, p. 163.

1. **Acrostalagmus niveus** Delacr. Bull. Soc. Myc. 1893, p. 185, t. XI, 3856 fig. IV.

*Hab.* in radicibus emortuis Castanæ vulgaris terra uda obductis, Parisiis. — Niveus, minutus; hyphæ steriles repentes septatæ, luteolæ, fertiles erectæ, hyalinæ; rami verticillato-terni, piriformes.  $10 \approx 2$ ; capitula globosa,  $15 \mu$  diam.; conidia e globoso oyoidea,  $4-5 \approx 2-3$ .

## Sect. 2. Didymosporæ.

**MYCOGONE** Link. — Syll. IV, p. 183, X, p. 550.

1. **Mycogone Meliolarum** Pat. Bull. Soc. Myc. 1892, p. 55, t. VII, f. 3. 3857

*Hab.* parasitice in *Meliola Cyperi* ad folia *Cyper*i, Komba

Congo. — Cæspituli exigui, convexi, rufi; hyphæ 3  $\mu$ . cr., hyalinae; conidia piriformia, 32-42  $\approx$  20-25, inæqualiter 1-septata, loculo supero majore, verrucoso, flavo-rufo, infero hyalino, levi, minuto.

**DIDYMARIA** Corda — Syll. IV, p. 184, X, p. 550.

1. **Didymaria Helianthemi** Boy. et Jacz. Mat. mycol. Montp. p. 47, 3858 fig. 10.

*Hab.* in foliis viventibus *Helianthemi* pr. Montpellier. — Hyphæ simplices; conidia solitarie acrogena, obovata, 16,5  $\approx$  8-8,5, hyalina, 1-septata, non constricta.

2. **Didymaria Kriegeriana** Bres. Hedw. 1893, p. 33. — Maculis amphigenis, latis, irregularibus, sæpe totum folium occupantibus, ochraceis; cæspitulis hypophyllis, albis, minutis; hyphis subfasciculatis, laxè septatis, 75-80  $\approx$  3-4; conidiis oblongo-obovatis, 1-septatis, 20-24  $\approx$  7-8, hyalinis. 3859

*Hab.* in foliis *Lychnidis diurnæ*, Polenzthal Saxonie (KRIEGER). — Species hæc multa cum *Ramularia lychnicola* Cooke videtur habere communia, at hyphis et conidiis bene diversa.

### Sect. 3. Phragmosporæ.

**DACTYLARIA** Sacc. — Syll. IV, p. 195, X, p. 552.

1. **Dactylaria parasitans** Cav. Fung. Long. exs. III, p. 147. 3860

*Hab.* in foliis vivis *Digitariæ sanguinalis* pr. Pavia Ital. bor. — Maculæ albo-griseæ, rufo-einctæ; hyphæ fertiles amphigenæ, 70-80  $\approx$  4,5, sursum tortuoso-angulosæ, spiculiferæ, 1-3-septatæ, griseæ; conidia obclavata 18-22  $\approx$  7-9, basi truncata, grisea, 2-3-septata, plurima in spiculam collecta. — «An potius *Piriculariæ* species?»

**RAMULARIA** Ung. — Syll. IV, p. 196, X, p. 553.

1. **Ramularia recognita** Massal. Contr. Micol. Veron. p. 55, t. IV, 3861 f. 18-19.

*Hab.* in pag. inf. foliorum *Hellebori viridis* in agro Veronensi, socia *Phyllosticta helleboricola*. — Maculæ exaridæ, amphigenæ, internerviæ; hyphæ simplices v. ramosæ, sursum denticulatæ, tortuosæ; conidia tereti-fusoidea, catenulata 6-16  $\approx$  2-3, rarius 1-septata.

2. **Ramularia Nymphææ** Bres. in Sydow Mycoth. march. Cat. XLI, 3862 1894, N. 4077. — Maculis amphigenis, circularibus, nigris v. nigro-

limitatis; cæspitulis epiphyllis, minutis, albis; hyphis continuis v. subfasciculatis e stolonibus repentibus oriundis, 40-50  $\approx$  3-4, hyalinis; conidiis ellipticis v. subclavatis, continuis, hyalinis, 16-20  $\approx$  5-6.

*Hab.* in foliis *Nymphææ* albæ, Brandenburg Germaniæ.

3. *Ramularia contexta* Ell. et Ev. Proc. Acad. Phil. 1894, p. 376. 3863

*Hab.* in foliis vivis *Menispermii canadensis*, Michigan Amer. bor. (SPALDING). — Hyphæ tenues, hyalinæ, intertextæ, pelliculam albam separabilem angulosam demum efficientes, fertiles erectæ 15-25  $\approx$  2-2,5; conidia clavato-fusoidea, demum 1-septata, 8-15  $\approx$  5-3.

4. *Ramularia lethalis* E. et E. New Sp. north Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 169. 3864

*Hab.* in foliis vivis *Aceris rubri*, quæ destruit, London Canada (DEARNESS). — Maculæ nigricantes, hinc inde albedo-areolatae; hyphæ subfasciculatae, simplices, continuæ, hyalinæ, 10-15  $\approx$  1,5-2; conidia oblonga, hyalina, continua, subcatenulata, 5-10  $\approx$  2-2,5.

5. *Ramularia reticulata* E. et E. Proceed. Acad. N. Sc. Philad. 462. 3865

*Hab.* in foliis *Osmorrhizæ*, Wisconsin Amer. bor. (DAVIS). — Cæspituli seriati, nervisequi, densi, albi; conidia oblonga v. teretia, hyalina 12-25  $\approx$  1,5-2, subcontinua, hyphis brevissimis suffulta.

6. *Ramularia tenuior* Fautr. et Brun. Rev. Myc. 1894, p. 76. — Cæspitulis minutis, pilosis, albidis, epiphyllis, maculas steriles *Hendersoniæ Cydoniæ* sæpe invadentibus; hyphis....; conidiis cylindricis v. fusiformibus, irregularibus, hyalinis, 10-16  $\approx$  3-4, 1-2-septatis. 3866

*Hab.* ad folia *Cydoniæ vulgaris*, Côte-d'Or in Gallia.

7. *Ramularia chalcedonica* Allesch. Hedw. 1894, p. 74. — Cæspitulis hypophyllis, numerosissimis, effusis, punctiformibus, subcinereis, haud maculigeris sed paginam superiorem foliorum infectorum in luteo-ochraceum decolorantibus; hyphis fertilibus fasciculatis, sursum denticulatis v. breve ramosis, parce septatis, 40-60  $\mu$ . long.; conidiis cylindræis, rectis v. leniter curvatis, utrinque rotundatis, plerumque 1, demum 2-3-septatis, basi sæpius apiculatis, hyalinis, 16-36  $\approx$  4-6. 3867

*Hab.* in foliis subviviis *Lychnidis chalcedonicæ*, Oberammergau in Bavaria.

8. *Ramularia Silenes* Karst. Symb. Myc. Fenn. XXX, p. 66. 3868

*Hab.* in foliis vivis v. languidis *Silenes* pr. *Mustiala* Fennicæ. — Maculæ amphigenæ, ochraceo-pallidæ; hyphæ obsolete septatae, subsimplices, 60  $\approx$  2-4; conidia oblonga, 12-24  $\approx$  5-7, continua, recta.

9. *Ramularia Karstenii* Sacc. *Ramularia Epilobii* Karst. Hedw. 3869  
1892, p. 296.

*Hab.* in foliis vivis *Epilobii angustifolii* pr. *Mustiala Fennicæ*. — Maculæ expallentes, purpureo-cinctæ; conidia bacillaria, recta, continua, v. 1-3-septata, utrinque obtusa, 24-27 = 2-3.

10. *Ramularia enecans* P. Magnus Hedw. 1895 p. (162). 3870

*Hab.* in foliis *Epilobii angustifolii*, *Prossener Grund* in *Helvetia saxonica*. — Maculæ ex albido flavidæ, brunneo-marginatæ; cæspituli hypophylli ex stomatibus exeuntes; hyphæ filiformes, septulatæ; conidia elongato-fusoideæ, 2-4-cellulares 21-26  $\mu$ . long. — « Verisimiliter non diversa a præcedente ».

11. *Ramularia Epilobii* Allescher Verz. Süd. Bay. Pilze p. 7, F. Bav. 3871  
n, 293, (1891)

*Hab.* in foliis vivis languidisve *Epilobii palustris* in *Bavaria inf.* — Maculæ amphigenæ, ochraceæ, internerviæ, demum confluentes; cæspituli grisei, hypophylli; hyphæ rectæ, parce septatæ, hyalinae, 50-70 = 4-6; conidia-cylindracea, 30-40 = 3,5-6 recta, curvulave, 1-2-septata, hyalina.

12. *Ramularia Circææ* Allesch. Verz. Süd-Bay. Pilze III, p. 104. 3872

*Hab.* in foliis languidis *Circææ lutetianæ* in *Bavaria sup.* — Maculæ læte brunneæ, extensæ; cæspituli hypophylli, albidii; hyphæ sursum denticulatæ, 30  $\mu$ . long.; conidia 20-24 = 3-4, cylindracea, utrinque rotundata, subcontinua, hyalina.

13. *Ramularia Psoraleæ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 376. 3873

*Hab.* in foliis *Psoraleæ macrostachyæ*, *California (BLESDALE)*. — Maculæ minutæ, pallide ferrugineo-brunneæ; hyphæ fasciculatæ, subsimplices, hyalinæ dein brunneolæ, sursum subgeniculatæ; conidia fusoidea, hyalina 12-30 = 3-3,5, constricto-1-septata.

14. *Ramularia montana* Voss Myc. Carn. IV, p. 281. — Maculis griseis rotundis dein confluentibus; cæspitulis sæpius epiphyllis, pulvereis, griseis; hyphis hyalinis subseptatis, sursum denticulatis, simplicibus; conidiis clavatis v. fusoideis rectis curvulisve demum constricto-1-septatis, 29-44 = 6-8, loculo superiore latiore, apiculato. 3874

*Hab.* in foliis vivis v. languidis *Viciæ Craccæ* in *Carniolia*.

15. *Ramularia Meliloti* E. et Ev. New West-Amer. Fung. p. 26 in *Erythea* vol. II, 1894. 3875

*Hab.* in foliis *Meliloti indicæ*, *Pasadena Californiæ (MAC CLATCHIE)*. — Effusa, flocculosa, oidioidea; hyphæ fertiles subcæspitosæ continuæ v. obsolete septatæ, 15-25 = 3; conidia acute ellipsoideæ, continua v. 1-septata, hyalina, 6-10 = 3.

16. *Ramularia Onobrychidis* Allesch. Verz. Süd-Bay. Pilze III, p. 104, 3876 (1891).

*Hab.* in foliis vivis *Onobrychidis sativæ* pr. München Bavariae. — Maculæ circulares, brunneæ; cæspituli hypophylli; conidia cylindracea, recta v. curvula utrinque obtusula, 1-septata, hyalina, 20-30  $\approx$  3-5. — Eadem videtur homonyma sed posterior *Ramularia Onobrychidis* Prill. et Delacr. Bull. Soc. Myc. 1893, p. 272 t. XIII f. 5 (In foliis caulibusque *Onobrychidis sativæ* pr. Maisse Galliae). Maculæ fulvæ, marginatæ; cæspituli minuti, albi; hyphæ 50  $\approx$  3, simplices, septatæ; conidia catenulata 15-30  $\approx$  4,5-5, tandem 1-3-septata, utrinque rotundata. Socia adest *Ascochyta Orobi* Sacc. forma *Onobrychidis*: perithecia 120-150 pr. diam.; sporulæ 16  $\approx$  5-6, constricto-1-septatæ, guttulatæ, hyalinæ.

17. *Ramularia Atropæ* Allesch. Verz. Süd-Bay. Pilze III, p. 103 (1891) 3877

*Hab.* in foliis vivis v. languidis *Atropæ Belladonnæ* pr. Oberammergau Bavariae. — Maculæ irregulares, fuscae, amphigenæ; conidia catenulata, cylindracea, recta, utrinque rotundata, sæpe guttata, diu continua, dein septata, 16-25  $\approx$  2,5-3,5. — Eadem videtur homonyma sed posterior *Ramularia Atropæ* Bres. Hedw. 1893, p. 33. in foliis *Atropæ Belladonnæ* prope Nossen Saxoniae (KRIEGER). — Maculæ amphigenæ, subcirculares, subochraceæ, fusco-marginatæ; hyphæ cæspitulosæ, cylindricæ, denticulatæ, 30-35  $\approx$  4; conidia oblonga, dein subcylindracea, continua, demum 1-septata, 10-18  $\approx$  3-4,5.

18. *Ramularia Anchusæ* Massal. Nuov. Contrib. Micol. Veron. p. 56. 3878

*Hab.* in foliis *Anchusæ italicæ* pr. Tregnago Veron. — Maculæ fuscae, orbiculares, pallidius marginatæ; cæspituli punctiformes, hypophylli; hyphæ simplices, continuæ, 35-45  $\approx$  4, alterne denticuligeræ; conidia 20-37  $\approx$  4-4,5, utrinque rotundata, 1-2-septata, hyalina.

19. *Ramularia Castilleiæ* Ell. et Ev. Proc. Acad. Phil. 1894. p. 375. 3879

*Hab.* in foliis *Castilleiæ miniata*, Washington Amer. bor. (SUKSDORF). — Maculæ subferrugineæ, indefinitæ; hyphæ hyalinæ, simplices 15-25  $\approx$  3-4, sursum crassiores, e tuberculo orientes, cæspitulos subroseos efficientes; conidia ellipsoideo-oblonga v. cylindracea, hyalina continua v. 1-septata, 15-25  $\approx$  3-4.

20. *Ramularia Melampyri* Ell. et Dear. New. Spec. Canad. Fung. in 3880 Canad. Rec. Sc. 1893, p. 272.

*Hab.* in foliis *Melampyri americani*, Ontario Amer. bor. — Hyphæ simplices, hyalinæ, 25-70  $\approx$  3, e nodulo mycelico fasciculatim

orientes, matricem deformantes; conidia fusoides-oblonga, hyalina intus granulosa, 10-20  $\approx$  4-5, continua. — Ad gen. *Ovulariam* nutat.

21. *Ramularia Cirsii* Allesch. Verz. Südbay. Pilze p. 7 (1892). 3881

*Hab.* in foliis vivis languidisve *Cirsii lanceolati* pr. München Bavarie. — Maculæ amphigenæ, circulares, albæ, atro-cinctæ; cæspituli minuti, albi; hyphæ 30-40  $\approx$  3; conidia catenulata, ex ovoideo cylindræa, demum 1-3-septata, utrinque obtusa, guttulate, hyalina, 30-35  $\approx$  2,5-3,5.

22. *Ramularia macrospora* Fres.-Syll. IV, p. 211 — *\*R. Campanulæ latifoliæ* Allesch. Verz. Sud-Bay. Pilze III, p. 101. 3882

*Hab.* in foliis vivis *Campanulæ latifoliæ* pr. Oberammergau Bavarie. — Conidia cylindrica, recta, utrinque obtusa, plerumque 3-septata, leniter constricta, hyalina, 30-40  $\approx$  2,5-3,5.

23. *Ramularia Stachydis-alpinæ* Allesch. Verz. Sud-Bay. Pilze III p. 104. 3883

*Hab.* in foliis vivis v. languidis *Stachydis alpinæ* in Bavaria sup. — Maculæ irregulares, ochraceo-brunnæ; cæspituli hypophylli; conidia ovoidea, oblonga, cylindræave, continua, usque 30  $\approx$  3-4, hyalina.

24. *Ramularia sambucina* Sacc. — Syll. IV, p. 197. — Forma *santonensis* Brun. Misc. myc. p. 46. 3884

*Hab.* in foliis *Sambuci nigræ*, Saintes Gallie. — Maculæ anguloso-rotundæ, olivaceæ v. brunneæ, dein expallentes; hyphæ sursum denticulatæ; conidia tereti-fusoidea, recta v. curvula, hyalina, 20-35  $\approx$  3, guttulate, 1-septata v. subcontinua.

25. *Ramularia curvula* Fautr. Rev. Myc. 1895, p. 71. 3885

*Hab.* in foliis *Fagopyri esculenti*, Côte-d'Or Gallie. — Hyphæ breves, torulosæ vel longiores filiformes; conidia 20  $\approx$  4, curvula 1-2-septata, hyalina.

26. *Ramularia Ari* Fautr. Rev. Myc. 1892, p. 176. 3886

*Hab.* in foliis *Ari maculati*, Côte-d'Or Gallie. — Maculæ membranaceæ, centro griseæ; hyphæ epiphyllæ, parce fasciculatæ, subfuliginææ, rectæ, 20-50  $\approx$  4-6; conidia cylindræa, 2-3-guttata, 20-22  $\approx$  4.

27. *Ramularia Scolopendrii* Fautr. Rev. Myc. 1892, p. 176. 3887

*Hab.* in foliis vivis *Scolopendrii officinarum*, Noidan Côte d'Or Gallie. — Maculæ rubræ; cæspituli amphigeni; hyphæ fasciculatæ simplices v. 1-2-ramosæ 16-33  $\approx$  3-4; conidia catenulata, teretia, hyalina, 6-16  $\approx$  3-4, continua.

**PIRICULARIA** Sacc. — Syll. IV. p. 217.

- 1.
- Piricularia parasitica**
- E. et E. Proceed. N. Sc. Philad. 1893, p. 462. 3888

*Hab.* parasitice in *Phyllachora graminis* ad folia *Elymi virginici*, Wisconsin Amer. bor. (DAVIS). — Griseo-alba, dense cæspitosa; hyphæ erectæ, simplices v. bifidæ, parce septatæ, hyalinæ, 70-110  $\approx$  3-4; conidia 15-22  $\times$  5-7, obclavato-ovoidea, hyalina, demum 2-3-septata.

**CERCOSPORELLA** Sacc. — Syll. IV, p. 218, X, p. 564.

- 1.
- Cercosporælla Mimosæ**
- Pat. Bull. Soc. Myc. 1893, p. 160. 3889

*Hab.* in foliis languidis *Mimosæ floribundæ*, Rio Machangara Æquatoriæ. — Maculæ fuscae, orbiculares; hyphæ epiphyllæ, hyalinæ, 30-50  $\approx$  2-3, fasciculatæ; conidia bacillaria, 80-120  $\times$  3, hyalina, 12-15-septata.

- 2.
- Cercosporælla albo-maculans**
- (E. et Ev.) Sacc.
- Cercospora albo-maculans*
- Ell. et Ev. Proc. Acad. Phil. p. 378. 3890

*Hab.* in foliis Brassicæ campestris, Berkeley-Californiæ (BLASDALE). — Maculæ orbiculares, albæ, atro-marginatæ; hyphæ amphigenæ, cæspitulosæ, 8-12  $\approx$  2, hyalinæ, continuæ; conidia cylindræa 40-68  $\approx$  2-2,5, dein 3-septata, recta, curvula.

- 3.
- Cercosporælla Magnusiana**
- Allesch. in Magn. Verz. Kissing. Pilz. p. 11. 3891

*Hab.* in foliis languidis *Geranii silvatici*; Unterfranken Germaniæ. — Maculæ amphigenæ, minutæ, ochraceo-olivaceæ; cæspituli albi, erumpentes, minuti; hyphæ parce breve ramulosæ, septatæ, hyalinæ; conidia filiformia, 45-90  $\approx$  2-2,5, pluriseptata, guttulata, recta v. curvula.

- 4.
- Cercosporælla Salvix**
- Pat. Bull. Boiss. 1895 p. 74. 3892

*Hab.* in pag. infer. foliorum *Salviæ* sp. San Jorge Æquatoriæ. — Maculæ epiphyllæ fusco-brunnæ; cæspituli hypophylli, pulverei, albi, confluentes; hyphæ erectæ, fasciculatæ, simplices, deorsum inflatulæ, sursum denticulatæ, 30-45  $\approx$  4-5; conidia cylindræa, 20-40  $\times$  3, continua, hyalina, non catenulata.

- 5.
- Cercosporælla Fraseræ**
- (Ell. et Ev.) Sacc.
- Cercospora Fraseræ*
- Ell. et Ev. Proc. Acad. Phil. 1894, 379. 3893

*Hab.* in foliis *Fraseræ speciosæ*, Bear Valley, Colorado Amer. bor. (CRANDALL). — Maculæ pallide brunneæ, atro-marginatæ; hyphæ cæspitulosæ, hyalinæ, 15-20  $\approx$  3; conidia sursum attenuata, hyalina, 1-4-septata, 80-100  $\times$  3-3,5.

- 6.
- Cercosporælla prolificans**
- (Ellis et Holw.) Sacc.
- Cercospora*
- E. et Holw. Bull. Labor. of Nat. hist. Iowa 185, p. 42. 3894



Hyphomycetum, Mucedineæ, Phragmosporæ, Septocylindrium. 607

*Hab.* in foliis Sambuci glaucæ California (PARISCH). — Amphigena; hyphæ fasciculatæ 25-30  $\times$  4, continuæ, hyalinæ; conidia clavato-cylindrica, granulosa, hyalina, 1-3-septata, 30-75  $\times$  3-4.

7. **Cercosporella Primulæ** Allescher Verz. Südbay. Pilze p. 7 (1891). 3895

*Hab.* in foliis languidis Primulæ officinalis pr. München Bavarie. — Maculæ subcirculares, ochraceæ; cæspituli amphigeni, minuti, albidi; conidia tereti-fusoidea, 40-90  $\times$  3-5, hyalina, sursum tenuata, 2-3-septata.

**FUSOMA** Corda. — Syll. IV. 200, X, p. 566.

1. **Fusoma biseptatum** Sacc. Grev. XXI, p. 69. t. 184, f. 15. — 3896

Maculis elongatis isabellinis; acervulis exiguis, depressis, compactiusculis, pallidis, subsuperficialibus; conidiis fusoides, leniter curvis, apice acutioribus, 2-septatis, minute guttulatis, hyalinis, 20-30  $\times$  4; basidiis ovato-conoideis, inæqualibus, 12  $\times$  4, parallele stipatis, ex hyphis tortuosis enatis.

*Hab.* in foliis languidis Calamagrostidis spec. Nossen Saxoniæ (KRIEGER).

2. **Fusoma Veratri** Allescher Verz. Südbay. Pilze p. 8. 3897

*Hab.* in foliis languidis Veratri Lobeliani pr. Oberammergau Bavarie. — Acervuli epiphylli, albidi, 2-3 mm. diam.; conidia fasciculata, falcato-fusoidea, 1-septata, 30-40  $\times$  3-5, loculo inferiore, 1-septato, deorsum angustato, basi truncato.

**SEPTOCYLINDRIUM** Bon. — Syll. IV, p. 223, X, p. 567.

1. **Septocylindrium Anemones** Delacr. Bull. Soc. Myc. 1892, p. 191, 3898 t. XVII, f. III.

*Hab.* in foliis Anemones silvaticæ pr. Parisios. — Effusum sordide album; hyphæ repentes, hyalinæ, 2  $\mu$ . cr.; conidia 25-40  $\times$  4-6, cylindræa, utrinque obtuse attenuata, recta, curvulave, 1-septata, breviter catenulata. Pars folii invasa siccatur et fuscescit.

2. **Septocylindrium scirpinum** Peck 45, Rep. p. 23. 3899

*Hab.* in spiculis emortuis Eriophori cyperini, Lake Pleasant Amer. bor. — Cæspituli minuti dein confluentes, flocculosi, albi; conidia anguste fusoides, hinc v. utrinque acuta, 20-50  $\times$  4-6, hyalina, 1-6-septata.

## Sect. 4. Staurospora

**TITÆA** Sacc. — Syll. IV, p. 231, X, p. 568.

1. *Titæa maxilliformis* Rostr. Mycol. Meddel. p. 46, cum iconibus. 3900

*Hab.* in caulibus *Trifolii pratensis* *Typhula Trifolii* infectis, in Dania. — Effusa, tota hyalina; conidia composita ex 5 articulis erectis inter se varie connexis; articulus inferior teres, continuus v. 1-septatus, basilaris, 8-10  $\mu$ . long.; superior cylindraceus 18-20  $\times$  2-3, utrinque rotundatus, 3-septatus, cui lateraliter additur articulus alter similis, sed angustior; e lateribus trium articulorum assurgit utrinque seta sigmoideo-inflexa, apice acutissima, 20-24  $\mu$ . longa.

## Sect. 5. Dictyosporæ.

**SYNTHETOSPORA** Morg. Bot. Gaz. XVII, 1892, p. 192 (Etym. *syn* simul, *tilhemi* pono et *spora*). Hyphæ omnes procumbentes vix septatæ, parce varie ramosæ; conidia sex-lobato-sarciniformes, 7-loculares, cellula centrali majori colorata, cellulæ (lobi) periphericæ rotundatæ, hyalinæ.

1. *Synthetospora electa* Morg. l. c. cum icone. 3901

*Hab.* in disco *Pezizæ semitostæ* v. affinis, Ohio Amer. bor. — Ex albo flavicans, pulverea; conidia 20-30  $\mu$ . diam., cellula centrali flavida; lobi hyalini 10-12  $\mu$ . diam.

## Sect. 6. Helicosporæ.

**HELICOMYCES** Link — Syll. IV, p. 233, X, p. 568.

1. *Helicomycetes angulsporus* Pat. Bull. Soc. myc. 1892, p. 137, t. XII, fig. IV. 3902

*Hab.* in fructibus *Lauracæ* cujusdam, *Pallatanga* *Æquatoricæ*. — Cæspituli erumpentes, effusi, pulverei, albi; hyphæ hyalinæ, 100-200  $\approx$  3, sursum liberæ, basi stromate albo 100  $\mu$ . cr.; conidia subsessilia, vehementer curvata v. in spiram unicam convoluta, apice attenuata, continua, multiguttata, 55-60  $\approx$  10-15, diam. conidii convoluti 30-40  $\mu$ .

2. *Helicomycetes gracilis* Morgan N. Amer. Helicosporæ p. 40, fig. 2. 3903

*Hab.* in cortice emortuo *Lauri Sassafras* in Amer. bor. — Flavido-virens; conidia 70-90  $\approx$  1, ter convoluta, hyalina, continua.

3. *Helicomycetes bellus* Morg. l. c. p. 42, fig. 4. 3904  
*Hab.* in ligno Liriodendri, Juglandis in America bor.  
 — Rubescenti-griseus; conidia 140-180  $\approx$  2,5-3, vicibus  $2\frac{1}{2}$ - $3\frac{1}{2}$   
 convoluta, tenuiter multiseptata, hyalina.
4. *Helicomycetes scandens* Morgan l. c. p. 45, fig. 5. 3905  
*Hab.* in ligno et cortice vetustis Quercus, Caryæ etc., in  
 America boreali. — Roseus, setulosus; conidia 150-200  $\approx$  2,5-3, ter  
 vel quater convoluta, multiseptata, hyalina.
5. *Helicomycetes clarus* Morgan l. c. p. 44, fig. 7. 3906  
*Hab.* in capsulis Tecomæ radicans, in America boreali.  
 — Albo-rubescens, tomentosus; conidia 180-220  $\approx$  4,5, bis convo-  
 luta, hyalina, guttulata.
6. *Helicomycetes elegans* Morgan l. c. p. 44, fig. 8. 3907  
*Hab.* in cortice et ligno putri Platani, Aceris etc., in Ame-  
 rica boreali. — Carneus vel roseus, flocculosus; conidia 240-310  
 $\approx$  5-6, plerumque bis convoluta, obsolete pluriseptata, hyalina.

**HELICOON** Morgan N. Amer. Helicosporæ p. 49 (Etym. *helix* et *oon*  
 ovum). — Hyphæ variæ; conidia filiformia in tubulum conicum vel  
 ovatum pluries transverse convoluta, hyalina vel colorata, plerum-  
 que continua. — Huc spectat quoque *H. tubulosum* (Riess sub  
*Helicomycete*) Sacc.

1. *Helicoon thysanophorum* Ellis et H. in Morgan l. c. p. 49, fig. 16. 3908  
*Hab.* in cortice vetusto Pini, Newfield Amer. bor. — Dense  
 cæspitosum, cinereum; conidia 2  $\mu$ . cr., in tubulum conicum 25-  
 30  $\approx$  15, hyalina, 8-10 vicibus convoluta.
2. *Helicoon sessile* Morgan l. c. p. 49, fig. 17. 3909  
*Hab.* in ligno vetusto Ulmi, in America boreali. — Pallidum,  
 pulverulentum; conidia 5-6  $\mu$ . cr. in tubulum ellipsoideum, 40-48  
 $\approx$  25, vicibus 6-8 convoluta, hyalina.
3. *Helicoon auratum* Ellis in Morgan l. c. p. 50, fig. 18. 3910  
*Hab.* in ligno vetusto Aceris rubri, Newfield N. J. Amer.  
 bor. — Flavo-aureum, pulverulentum; conidia 3  $\mu$ . cr., in tubulum  
 conico-ovoideum, vicibus 12-15 convoluta, continua, aurea.
4. *Helicoon ellipticum* Peck in Morgan l. c. p. 50, fig. 16. 3911  
*Hab.* in ligno Abietis canadensis, Newfield N. J. Amer.  
 bor. — Velutinum, olivaceum; conidia 3-4  $\mu$ . cr., in tubulum ovo-  
 ideum. 30-36  $\approx$  20-24, vicibus 6-8 convoluta, olivacea, continua.

*Fam. 2. Dematiæ Fr.**Sect. 1. Amerosporæ Sacc.**Subsect. 1. Micronemæ Sacc.**Trib. 1. CONIOSPORIÆ Sacc.*

**CONIOSPORIUM** Link — Syll. IV, p. 238, X, p. 569.

1. *Coniosporium microsporum* Ell. et Ev., Proc. Acad. Phil. 1894, 3912 p. 377.

*Hab.* in caulibus emortuis Senecionis triangularis, Colorado Amer. bor. (CRANDALL). — Acervuli epidermide tenui, mox erumpentes, nigri, 1-3 mm. diam.; conidia globosa, 3  $\mu$ . diam., olivaceo-brunnea.

2. *Coniosporium atratum* Karst. et Malbr. in Le Bret. et Niel Champ. 3913 Norm. V, Liste p. 161.

*Hab.* in ligno pineo, Quevilly pr. Ronen Galliæ. — Acervuli punctiformes, atris; conidia ellipsoideo-sphæroidea, eguttata, fuliginea, 7-9  $\approx$  5-6.

3. *Coniosporium Rosæ* Brun. Champ. Charente-Infer. 1892, p. 37. — 3914 Acervulis atris, minutis, confertis, raro confluentibus; conidiis oblongis v. subpiriformibus, olivaceis v. brunneis 1-2-guttulatis, 16-17  $\approx$  6, brevissime pedicellatis.

*Hab.* ad truncos emortuos Rosæ caninæ, Saintes Galliæ *Coniosporio melanconideo* Sacc., a quo conidiis crassioribus differt, affine.

4. *Coniosporium Dasyliirii* Oud. Contrib. Fl. myc. Pays-Bas XV, p. 19. 3915 — Soris erumpentibus, numerosis, irregulariter dispersis, orbicularibus 0,5-1,5 mm. diam., atris; conidiis sphæricis, brunneis, 4-5  $\mu$ . lat., hyphis fertilibus, brevibus, hyalinis suffultis.

*Hab.* ad folia Dasyliirii acrotrichi culti, Amsterdam.

*Trib. 2. TORULÆ Sacc.*

**TORULA** Pers. em. Sacc. — Syll. IV, p. 249, X, p. 572.

1. *Torula viticola* Allesch. Verz. Süd-Bay. Pilze III, p. 106. 3916

*Hab.* in sarmentis Vitis viniferæ pr. München Baviariæ. — Cæspituli nigri, decolorantes, oblongi; conidia globosa, atro-brunnea, 5-6  $\mu$ . diam.

2. **Torula Rubi-Idæi** Allesch. Verz. Süd-Bay. Pilze III, p. 106. 3317  
*Hab.* in sarmentis putridis Rubi Idæi pr. München Baviaræ.  
— Acervuli atri, decolorantes; hyphæ repentes parce ramosæ, articulatae; conidia globosa, atro-brunnea, 6  $\mu$ . diam., eguttata.
3. **Torula Robiniæ** Allesch. Verz. Süd-Bay. Pilze III, p. 105. 3318  
*Hab.* in cortice interiore putri Robiniæ Pseudacaciæ pr. München Baviaræ. — Conidia discoidea, latiora quam longiora, læte brunnea, quina-octona in catenulas 50-60  $\approx$  8 digesta, hyphis inæqualibus, brunneolis, repentibus, subinde ramosis suffulta.
4. **Torula cinereo-virens** Karst. Symb. Myc. Fenn. XXX, p. 68. 3919  
*Hab.* in ligno vetusto betulino pr. Mustiala Fennicæ. — Acervuli pulvinati, seriatim, exigui, virenti-cinerei; hyphæ obsoletæ; conidia ovato-ellipsoidea, olivaceo-fuliginea, 5-7  $\approx$  3-4, in catenulas simplices per 6-7 digesta.
5. **Torula maculicola** Romell et Sacc. Grev. XXI, p. 69, t. 184, f. 16. 3920  
— Maculis amphigenis, tubercularibus, nigricantibus, 2-3 mm. diam., centro pallidioribus; cæspitulis in centro maculæ gregariis, sæpe hypophyllis, olivaceo-atris; hyphis conidiophoris brevissimis, olivaceis, cylindræis, 7-8  $\approx$  3, e basi stromatica cellulosa oriundis; conidiis ellipsoideo-oblongis v. fusoides, 14-25  $\approx$  4-6, olivaceis, paucis catenulatim junctis, extremis minutis.  
*Hab.* in foliis vivis Populi tremulæ, pr. Stockholm Sueciæ, 1890 et 1891 (ROMELL). — Cum *Fusicladio* et cum *Cladosp. Asteromate* quandam habet affinitatem.
6. **Torula sporodesmioides** Ell. et Ev. Proc. Acad. Phil. 1894, p. 377. 3921  
*Hab.* in cortice ramorum emortuorum California. — Pulvinata v. subeffusa, nigricans; hyphæ repentes, initio hyalinæ, parvæ, ramulosæ; conidia ellipsoidea 8-10  $\approx$  5-6, ex flavo-brunneo opaca, distincte verruculosa, 1-septata haud constricta. Subinde catenæ duæ v. plures coalescunt et tunc in *Sporodesmium* fere trans-eunt. Ob conidia aspera ad sect. *Trachyloram* spectaret.
7. **Torula Sacchari-lactis** Oud. Contrib. Fl. myc. Pays-Bas XV, p. 19. 3922  
— Hyphis sterilibus incoloribus, articulatis, ramosis; hyphis fertilibus erectis v. adscendentibus, brevibus, incoloribus, levibus, sursum breviter ramosis, ramulis conidiis coronatis; conidiis globulosis, saturate violaceis, tenuiter echinulatis, 2-4  $\mu$ . lat., nonnullis hinc inde majoribus incoloribusque.  
*Hab.* ad glomerationes crystallinas Sacchari lactis, Amsterdam. — E sect. *Trachytorce*.

**THIELAVIOPSIS** Went De Ananasziekte p. 4, t. 3 (Etym. a *Thielavia*, cui analogon genus). — Hyphæ steriles, repentæ subhyalinæ; fertiles simplices, septatæ. Conidia dimorpha; majora catenulata ovata, fusca; minora, cylindracea, hyalina, ex interiore hypharum catenulatum generata et ex apice exsiliencia.

1. *Thielaviopsis ethacetica* Went. l. c.

3923

*Hab.* in culmis, foliis, fructibus *Ananassæ sativæ* in insula Java. — Macroconidia 16-19  $\approx$  10-12; microconidia 10-15  $\approx$  3,5-5.

Subsect. 2. *Macronemeæ* Sacc.

Trib. 3. *PERICONIÆ* Sacc.

**STACHYBOTRYS** Corda — Syll. IV, p. 269, X, p. 577.

1. *Stachybotrys gracilis* Em. March. Bull. soc. belg. micr. 1894, p. 265. 3924  
t. VII, f. 1.

*Hab.* in foliis siccis *Anselliæ* in Congo inf. (E. LAURENT). — Subaffinis *St dichroæ* Grov. — Conidia nigricantia, continua, 9-10  $\approx$  5-6; hyphæ fertiles 70-95  $\approx$  3,8-4.

**PERICONIA** (Tode) Bon. — Syll. IV, p. 270, X, p. 578.

1. *Periconia tenuissima* Peck 46 Rep. p. 33.

3925

*Hab.* in mycelio quodam ad lignum; Adirondack M. Amer. bor. Effusa, stratum purpureo-brunneum formans; hyphæ erectæ simplices, vix septatæ, 300-350  $\approx$  4; capitulum globosum, minutum; conidia 2,5-3  $\mu$ . diam., subpurpureo-brunnea. — Quoad *Per. Helianthi* Bon. (= *P. gracilis* Sorok.) cfr. Sorok. Paras. Cauc. p. 118, t. VI, f. 68.

**CEPHALOTRICHUM** Berk. — Syll. IV, p. 275.

1. *Cephalotrichum minimum* (Fr.) Sacc. — *Actinocladium* Fr. S. M. 3926  
III, p. 353. — Maculis arescentibus luteis; hyphis discretis, atris, rigidulis, apice bis furcatis; conidiis albis.

*Hab.* ad folia languida *Ari* in Gallia (MONTAGNE) et in Lusitania (WELWITSCH).

Trib. 4. *TRICHOSPORIÆ* Sacc.

**ZYGODESMUS** Corda — Syll. IV, p. 283, X, p. 581.

1. *Zygoesmus stercorarius* Karst. Symb. Myc. Fenn. XXX, p. 66. 3927

*Hab.* in fimo equino pr. Mustiala Fennicæ. — Effusus, crustaceo-gossypinus, violascenti-cinereus, ambitu dilutiore; hyphæ

intricatæ, ramosæ, septatæ, noduloso-septatæ, 5-7  $\mu$ . cr.; conidia sphæroidea, aculeata, dilute fuligineo-flava, 6-7  $\mu$ . diam.

2. *Zygodemus tenuissimus* Peck 47 Rep. p. 26.

3928

*Hab.* in lignis putridis, Canada (MACOUN). — Effusus, pulvereus, tenuissimus, flavido-griseus, margine indistincto; hyphæ breves, septatæ; conidia globosa, spinulosa, subhyalina, 7-7.5  $\mu$ . diam.

**TRICHOSPORIUM** Fr. — Syll. IV. p. 288, X, p. 583.

1. *Trichosporium fuliginosum* Karst. Hedw. 1892, p. 295.

3929

*Hab.* in ramis emortuis Ericæ, Mustiala Fennicæ. — Effusum, arachnoideum, fuligineum; hyphæ intricatæ, subramosæ, septatæ, leves, 5-6  $\mu$ . cr.; conidia ovoidea v. sphæroidea, 5-6  $\approx$  3-4, v. 3  $\mu$ . diam. ex hyalino olivacea.

**CAMPSOTRICHUM** Ehrenb. — Syll. IV, p. 295, X, p. 586.

1. *Campsotrichum melioides* Allesch. in P. Henn. Fung. goyaz. 3930 p. 115.

*Hab.* in foliis coriaceis plantæ ignotæ, Goyaz Brasilicæ (ULE). — Epiphyllum, maculiforme, atro-brunneum, subdendroideum; hyphæ repentes, intricatæ, fuscæ; conidia globosa, atra, sæpe breve hyalino-pedicellata, 8-11  $\mu$ . diam.

*Trib. 6. MONOTOSPORA* Sacc.

**MONOTOSPORA** Corda — Syll. IV, p. 299, X, p. 588.

1. *Monotospora fasciculata* C. et Massee Grev. XXI, p. 39.

3931

*Hab.* ad cortices, Gipps Land Australiæ (MARTIN). — Cæspituli erumpentes, nigri, gregarii, 1 mm. diam.; hyphæ fertiles erectæ, dense fasciculatæ, septatæ, brunneæ; conidia ovoideo-globosa, levia, opaca, brunnea, 18  $\approx$  10-12.

**HADROTRICHUM** Fuck. — Syll. IV, p. 301, X, p. 588.

1. *Hadrotrichum Blasdalei* Sacc. in Erythea 1893, p. 203. — Am- 3932

phigenum sed sæpius hypophyllum, punctiforme v. confluento maculiforme, erumpenti-superficiale, adpressum, densiusculum, umbrino-fuligineum; conidiis elliptico-ovoideis, basi sæpius apiculato-truncatis, 20-26  $\approx$  12-14, umbrinis, varie guttulatis; basidiis fasciculatis, obclavatis, continuis, concoloribus, 22-26  $\approx$  7-8, apice monosporis.

*Hab.* in foliis adhuc vivis Viciæ giganteæ, Mill Valley Californiæ (W. C. BLASDALE). — Conidia forma et dimensione sat ludunt.

2. **Hadrotrichum Heteromelis** E. et E. New West-Amer. Fung. 26 3933  
in Erythea vol. II, 1894.

*Hab.* in foliis *Heteromelis arbutifoliæ*, Catalina Island Californiæ. — Maculæ hypophyllæ, atro-brunneæ, elevato-marginatæ; hyphæ cæspitosæ 15-30  $\approx$  3,5-4, subnodulosæ, subcontinuae; conidia ovoidea v. navicularia, brunnea, continua, 15-22  $\approx$  6-7.

**ACREMONIELLA** Sacc. — Syll. IV, p. 302, X, p. 588.

1. **Acremoniella occulta** Cavara in Zeitschr. f. Pflanzenkrank. 1893, 3934  
p. 24, t. I, f. 8.

*Hab.* in interiore culmorum, Rocca S. Casciano Lombardia. — Punctiformis, atra; mycelium araneosum, album; hyphæ sparsæ, validæ, septatæ, ramosæ, ramis rectangulari-exeuntibus, fertilibus erectis, longissimis, dilute luteo-brunneis; conidia ellipsoidea v. globoso-depressa, opaca, levia, 13-15  $\approx$  9-12, episporio fragili.

**DEMATIUM** Pers. — Syll. IV, p. 308, X, p. 589.

1. **Dematium vinosum** Masee Grev. XXI, p. 7, t. 182, fig. 3935

*Hab.* in charta uda, gummi obducta in Britannia. — Effusa, theobromina; hyphæ steriles repentes, hyalinæ; septatæ, rami fertiles erecti, ramulosi; conidia catenulata, acrogena, breve cylindracea utrinque truncata, vinoso-brunnea, 10-12  $\mu$ . diam.

*Trib. 8. SARCOPODIEÆ* Sacc.

**HELICOTRICHUM** Nees — Syll. IV, p. 313, X, p. 592.

1. **Helicotrichum Platani** (Otth) Sacc. *Psilonia Platani* Otth Bern. Mittheil. 1870, p. 112. 3936

*Hab.* in foliis dejectis *Platani* pr. Bern Helvetiæ. — Cæspituli griseo-nigricantes, 1-3 mm. crassi; hyphæ erectæ, rigidæ, fusco-brunneæ, continuæ, simplices, scabræ, sursum circinato-curvæ; conidia basi coacervata, hyalina, continua, 10-13  $\approx$  1.

**BOTRYOTRICHUM** Sacc. et Malbr. — Syll. IV, p. 313.

1. **Botryotrichum** (*Peziotrichum*) **Lachnella** Sacc. Hedw. 1893, p. 58, 3937  
t. 6, fig. 4. — Hinc inde gregarium, umbrino-fuscum; cæspitulis ex hyphis dense circulariter fasciculatis compositis, *Pezizulam hirtam* (ex gr. *Lachnellam barbatam* revocantibus) 1 mm. diam., subinde confluentibus; hyphis sterilibus erectis, rigidulis, septulatis, 0,7 mm. longis, 3-4  $\mu$ . cr., apicem versus pallidioribus, acutiusculis, basi ramos fertiles, flexuosos, inæqualiter ramulosos



Hyphomyceteæ, Dematiæ, Amerosporæ, Stachylidium. 615  
pallidiores gerentibus; conidiis sphaericis, levibus, subhyalinis, intus granulosis, 12  $\mu$ . diam., ad ramulos acro-pleurogenis, subinde stipitellatis.

*Hab.* in ramis et spinis nondum emortuis Bursariæ spinosæ, Victoria (MÜLLER). — Stirps singularis, verisimiliter novi generis (*Peziotrichum* dicendi), ob setas rigidas in circulum dispositas et ob vitam subparasiticam a typo valde recedens.

*Trib. 9. MYXOTRICHEÆ* Sacc.

**MYXOTRICHUM** Kunze — Syli. IV, p. 317, X, p. 593. — Cfr. notam in Syll. X, p. 593.

1. *Myxotrichum brunneum* Rostr. Myk. Meddel. V, p. 216. 3938

*Hab.* ad Isariam densam cultam, Copenhagen. — Acervuli globulosi, brunnei, copiosi, 0,5 mm. diam.; hyphæ laxè anastomosantes, brunneæ, periphericæ, rugulosæ, septatæ, 3,5  $\mu$ . diam.; conidia globulosa, copiosa, brunneo-pallida, 3-4  $\mu$ . diam., sæpius octona, hinc verisimillime ex asco oriunda, partem interiorem acervuli formantia.

*Trib. 10. CHLORIDIEÆ.*

**CHÆTOPSIS** Grev. — Syll. IV, p. 324.

1. *Chætopsis roseola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 376. 3939

*Hab.* in cortice quercino, Michigan Amer. bor. (JOHNSON). — Hyphæ fertiles, simplices, erectæ, septatæ, brunneæ, 200-250  $\mu$ . long., sursum pallidæ; rami e medio orientes, simplices v. 2-3-fidi ex hyalino brunnei, 15-30  $\approx$  1,5, septati; conidia cylindracea, 8-10  $\approx$  1,5-2, recta, hyalina, 3-4-nucleata.

**MENISPORA** Pers. — Syll. IV, p. 325.

1. *Menispora acicola* E. et E. N. A. F. 2965, Proceed. Acad. N. Sc. 3940  
Philad. 1893, p. 462.

*Hab.* in foliis dejectis Pini rigidæ, Newfield N. J. Amer. bor. — Effusa, pubescens, e griseo fusca; hyphæ erectæ, simplices, brunneæ, septulatæ 100-110  $\approx$  3; conidia tereti-fusoidea, 12  $\approx$  1,5-2, hyalina, utrinque setula 8  $\mu$ . long. aucta.

*Trib. 11. STACHYLIDIEÆ* Sacc.

**STACHYLIDIUM** Link — Syll. IV, p. 331.

1. *Stachylidium caricinum* Ell. et Ev. Proc. Acad. Phil. 1894, p. 377. 3941

*Hab.* in foliis emortuis Caricis Fraseri in Virginia occid.

(NUTTALL). — Hyphæ fasciculatæ, brunneæ, septatæ, 600–700 = 3,5, simplices v. furcatæ, verticillato-ramulosæ; conidia 4–5 = 1,5–2, ellipsoidea, hyalina, capitulata.

**CHALARA** Corda — Syll. IV, p. 333, X, p. 595.

1. **Chalara Kriegeriana** Bres. Hedw. 1894, p. 210.

3942

*Hab.* in foliis *Syringæ vulgaris*, præsertim in maculis Ascochyætæ, pr. Schandau Saxonie (KRIEGER). — Hyphæ basi ferrugineo-fusæ, 100–120 = 4; conidia catenulata 4–5 = 2, chlorino-hyalina.

## Sect. 2. Didymosporæ.

### Subsect. 1. Micronemæ Sacc.

#### Trib. 1. BISPORÆ Sacc.

**DICOCCUM** Corda — Syll. IV, p. 342, X, p. 595.

1. **Dicoccum populinum** E. et E. Proceed. N. Sc. Acad. Philad. 1893, 3943 p. 462.

*Hab.* in foliis *Populi grandidentatæ*, Jowa Amer. bor. — Hypophyllum, læte brunneum, suborbiculare; conidia ovato-oblonga, 1-septata, 14–18 = 6–7, subsessilia, strata olivacea formantia; hyphæ subnullæ.

2. **Dicoccum nebulosum** E. et E. Proceed. Acad. N. Sc. Philad. 1893, 3944 pag. 463.

*Hab.* in foliis *Fraxini americanæ*, Wisconsin Amer. bor. (DAVIS). — Hypophyllum, olivaceum; conidia obovato-oblonga, 1-septata, vix constricta 11–13 = 4; hyphæ obsoletæ.

**CYCLOCONIUM** Cast. — Syll. IV, p. 343, X, p. 596.

1. **Cycloconium oleaginum** Cast. — Syll. IV, p. 343, X, p. 596. — 3945 var. **Quercus Ilicis** Pegl. Note Pat. Veg. p. 12.

*Hab.* in foliis vivis *Quercus Ilicis* prope Portici et Avelino Ital. merid. — A typo differt conidiis ad septa subconstrictis, inæqualiter divis, loculo inferiore crassiore et rotundo, superiore conoideo, 17–20 = 12–15.

**BISPORA** Corda — Syll. IV, p. 343, X, p. 596.

1. **Bispore Trabutiana** Sacc. Fung. herb. Bruxell. n. 41, *Cladosporium microsporum* Trab. in Roum. F. Gall. n. 1426 [in Herb. 3946]

Brux.] an et Rab. in Un. it. n. 42. Sacc. Syll. X, p. 603? — Cæspitulis hypophyllis, exiguis, atris, e stomatum locellis oriundis; catenulis fasciculatis, 45-60  $\approx$  6-7, hyphopodio brevi, 15  $\approx$  2,5, continuo, simplici, rarius furcato suffultis; conidiis ellipsoideis, utrinque obtusis, 8-9  $\approx$  6-7, ternis-senis in quaque catenula, typice 1-septatis, non v. vix constrictis, rarissime 3-septatis, non v. vix constrictis, rarissime 3-septatis v. submuriformibus, fuliginis.

*Hab.* in pag. inf. foliorum Nerii Oleandri in Algeria (TRABUT). — An *Cl. microsporum* Rab. (e. Sardinia), huc pertineat, nescio, sed species algeriensis a typo *Cladosporii* maxime recedit.

## Subsect. 2. Macronemæ SACC

### Trib. 2. CLADOSPORIÆ Sacc.

**PASSALORA** Fr. et Mont. — Syll. IV, p. 344, X, p. 597.

1. **Passalora Pyracanthæ** Otth Bern. Mittheil. 1868, p. 66. 3947

*Hab.* in foliis Cratægi Pyracanthæ, Bern Helvetiæ. — Hyphæ olivaceo-brunnæ, continuæ, brevissimæ, fasciculatæ, dendritice dispositæ; conidia flavido-olivacea, ovoideo-oblonga, obsolete 1-septata, 16-17  $\approx$  6,5-8. — «Potius *Fusicladii* species».

2. **Passalora punctiformis** Otth Bern. Mittheil. 1868, p. 67. 3948

*Hab.* in foliis Melicæ unifloræ et Dactylidis glomeratæ pr. Bern Galliæ. — Epiphylla in maculis arescentibus; hyphæ fumosæ, breves, strictæ, obtusæ, continuæ, in soros punctiformes nigros confertæ; conidia pallida, oblongo-ovoidea, 1-septata. — «Potius *Fusicladium*».

3. **Passalora Pomi** Otth Bern. Mittheil. 1868, p. 66. 3949

*Hab.* in foliis Piri coronariæ, Bern Helvetiæ. — Hyphæ breves brunneæ, fragiles, fasciculatæ, dendritice dispositæ; conidia oblongo-ovoidea v. obclavata, 1-septata, pallidiora, 20  $\approx$  7. — «Potius *Fusicladii* species».

4. **Passalora Hordei** Otth Bern. Mittheil. 1868, p. 66. 3950

*Hab.* in foliis Hordei distichi pr. Bern Helvetiæ. — Cæspituli nigro-fusci, macula exarida amphigena inserti; hyphæ breves, continuæ, subflexuosæ, fumosæ; conidia ovoideo-elongata, 1-septata, rarius 3-septata 42  $\approx$  10, pallidiora. — «Potius *Fusicladii* species».

**FUSICLADIUM** Bon. — Syll. IV, p. 345, X, p. 597.

1. **Fusicladium Schnablianus** Allesch. Fungi bav. exsicc. p. 397. 3651

*Hab.* in pag. inf. foliorum vivorum *Cardui Personatæ*, Oberammergau Bavariæ. — *Cæspituli* hypophylli, parvi, fusco-atrici; hyphæ simplices continuæ, vix flexuosæ, erectæ, 50-60  $\approx$  6-7, olivaceæ; conidia subclavata, apice rotundata, basi truncata, olivacea, demum 1-septata, 35-45  $\approx$  7-9.

2. **Fusicladium Peucedani** Ellis et Holw. Bull. Hist. nat. Jowa 1895, 3952 p. 42.

*Hab.* in foliis *Peucedani simplicis*, California (NUTTING). — *Cæspituli* amphigeni, puccinioides, olivaceo-nigri; conidia oblonga, medio leniter angustata, olivaceo-brunnea, rugulosa; hyphæ continuæ, breviores.

3. **Fusicladium Statices** Ell. et Ev. Proc. Acad. Phil. 1894, p. 378. 3953

*Hab.* in foliis vivis *Statices Limonii* Cape May N. Y. Amer. bor. (COMMONS). — *Maculæ* orbiculares, purpurascens, demum fere deciduæ; hyphæ epiphyllæ, fasciculatæ, 40-60  $\approx$  4, brunneæ, septatæ; conidia oblonga, obtuse acutata, subolivacea, 1-septata, 10-16  $\approx$  3-4.

4. **Fusicladium obducens** Pat. Bull. Soc. Myc. 1893, p. 161. 3954

*Hab.* in foliis *Pruni salicifoliæ*, Cotacollao Æquatoriæ (LAGERHEIM). — *Epiphyllum*, nigro-olivaceum, late obducens, ambitum dendriticum; hyphæ steriles subcutaneæ, hyalinae, radiantes; fertiles erectæ, olivaceæ, cæspitosæ, 40-80  $\approx$  8-10, simplices, raro furcatæ, 1-2-septatæ; conidia 20-22  $\approx$  8, ovoidea v. fusioidea, sæpe truncata, plerumque 1-septata, olivacea.

5. **Fusicladium Aplectri** Ell. et Ev. Proc. Acad. Phil. 1894, p. 378. 3955

*Hab.* in foliis *Aplectri hiemalis*, Delaware Amer. bor. (COMMONS). — *Maculæ* albidæ, purpureo-marginatæ; hyphæ fasciculatæ, olivaceæ, 2-3-septatæ, 65-75  $\approx$  5-6; conidia terminalia, ellipsoidea, virentia, demum 1-septata, 12-15  $\approx$  6-7.

6. **Fusicladium caricinum** Bres. in Sydow Mycoth. march. Cent. XLI, 3956

1894, n. 4065. — *Maculis* elongatis, fusciculis; cæspitibus punctiformibus, nigris, dense aggregatis; hyphis brevibus, pedicelliformibus, hyalinis 8-14  $\approx$  6-7; conidiis fusioideo-clavatis, basi truncatis, olivaceis, apice hyalino-acuminatis, 1-septatis, 30-45  $\approx$  12-15.

*Hab.* ad folia *Caricis acutiformis*, Brandenburg Germaniæ.

**SCOLECOTRICHUM** K. et S. — Syll. IV, p. 347, X, p. 599.

1. **Scolecotrichum Alstroemeriae** Allesch. P. Henn. Fung. Goyaz. 3957 p. 116.

*Hab.* in foliis vivis *Alstroemeriae* sp. Goyaz Brasiliæ (ULE).

— Maculæ amphigenæ, ochraceæ; cæspituli hypophylli punctiformes, flavo-olivacei; hyphæ 90-100  $\approx$  5-6, simplices, pluriseptatæ, flavæ; conidia oblongo-ovoidea, scabra, dein 1-septata, sæpius constricta, flava, 10-20  $\approx$  7-8.

2. **Scolecotrichum Caricæ** Ell. et Ev. Journ. Myc. VII, p. 134. 3958.

*Hab.* in foliis vivis Caricæ Papayæ, Florida Amer. bor. (UNDERWOOD). — Maculæ flavæ, centro exaridæ; cæspituli hypophylli, crebri, sphaeriæformes, atro-brunnei; hyphæ continuæ, 20-22  $\approx$  6-7, oblongo-subclavatæ, fasciculatæ; conidia 12-20  $\approx$  8-10, ovoidea, 1-septata, pallide brunnea.

3. **Scolecotrichum Asclepiadis** E. et E. New West Amer. Fung. in Erythea p. 203. 3959

*Hab.* in foliis Asclepiadis eriocarpæ, Pasadena California (MAC CLATCHIE). — Epiphyllum, maculiforme, atrum; hyphæ 20  $\approx$  3,5-4, continuæ, simplices, rectæ; conidia obovata v. ellipsoidea, 1-septata, 15-20  $\approx$  9-11, subinde septo leniter constricta.

4. **Scolecotrichum Typhæ** E et E. New West Amer. Fung. in Erythea p. 202. 3960

*Hab.* in foliis emortuis Typhæ latifoliæ, Colorado Amer. bor. — Maculæ nullæ; hyphæ 30-40  $\approx$  5-6, simplices, brunneæ, erectæ, subcontinuæ; conidia ellipsoidea, 1-septata, olivaceo-brunnea, 14-22  $\approx$  8-10.

# **CLADOSPORIUM** Link — Syll. IV, p. 350, X, p. 601.

1. **Cladosporium obtectum** Rabenh. F. Eur. n. 2783 [in Herb. Brux.] 3961  
Sacc. Syll. X, p. 602.

*Hab.* in foliis languidis Artemisiæ gallicæ, Alghero Sardiniae (MARCUCCI). — Cæspituli villo albo foliorum diu tecti; hyphæ sursum denticulatæ, 60  $\approx$  3-5; conidia continua, dein 1-septata, vix constricta, olivaceo-fusca, 10-12  $\approx$  4-5.

2. **Cladosporium ferrugineum** Allesch. in P. Henn. Fung. goyaz. p. 116. 3962

*Hab.* in foliis Sweetiæ bijugæ, Minas Geraes Brasiliæ (ULE). — Cæspituli hypophylli, velutini, ferruginei; hyphæ fertiles fasciculatæ, intricatæ, parce nodulosæ, subsimplices, septatæ, 60-70  $\approx$  5-6; conidia subclavata, demum 1-3-septata, subconstricta, ferruginea, 20-48  $\approx$  5-7.

3. **Cladosporium longipes** Sorok. Paras. p. 26, t. IV, f. 49-50. 3963

*Hab.* in foliis Vitis viniferæ in Caucaso. — Maculæ brunneæ; acervuli punctiformes; hyphæ fasciculatæ ex stomatibus

exeuntes, prælongæ, griseæ, septatæ; conidia oblonga 1-3-septata, 6-9  $\approx$  2-3, acrogena, rarius et pleurogena, hyalina.

4. **Cladosporium Uleanum** P. Henn. Fung. goyaz. p. 116.

3964

*Hab.* in foliis vivis Myrtaceæ pr. Minas Geraes Brasiliæ (ULE). — Cæspituli epiphylli, velutini, rufo-brunnei; hyphæ repentes dendritico-effusæ, septatæ, 6-9  $\mu$ . cr.; conidia clavata, obtusa, e flavo brunnea, tandem 2-septata, non constricta, 30-60- (raro 120)  $\approx$  12-18, levia.

5. **Cladosporium Sambuci** Brun. Champ. Charente-Infér. 1892, p. 32.

3965

Maculis brunneis; acervulis sparsis v. confluentibus; hyphis olivaceis, septatis, interdum ramosis; conidiis subfusiformibus, olivaceis, primitus continuis, dein 1-3-septatis, 15-30  $\approx$  5-8, septis haud constrictis.

*Hab.* ad folia Sambuci nigræ, Saintes Galliæ.

6. **Cladosporium nigrellum** E. et E. Proceed. Acad. N. Sc. Philad. 1893, p. 463.

3966

*Hab.* in cortice viminum (Salicis?) Nuttallburg. Virg. occid. (NUTTALL). — Hyphæ dense cæspitosæ, subæquales, 150-200  $\approx$  5-6. stratum velutinum nigrum formantes; conidia fumose hyalina, dein brunnea, ovoidea, continua v. 1-septata, 6-8  $\approx$  5, subinde 2-3-septata, 12-15  $\approx$  5-6

7. **Cladosporium Scribnerianum** Br. et Cav. Fung. parass. n. 187. —

3967

Maculis epiphyllis, orbicularibus, olivaceis, magnis; hyphis fertilibus simplicibus v. parce ramulosis, tortuosis, sursum subulatis; conidiis fusiformibus, obtusiusculis, medio septatis, leniter constrictis, intus granulosis, dilute olivaceis, 24-28  $\approx$  5.

*Hab.* in foliis Betulæ populifoliæ cultæ in orto botanico Pavia Ital. bor. — « Absque dubio affine *Cl. Asteromati*, nisi ejus forma ».

8. **Cladosporium aterrimum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 378.

3968

*Hab.* in ligno putri, Kansas Amer. bor. (BARTHOLOMEW). — Cæspitosum, demum olivaceo-nigrum, velutinum; hyphæ parce septatæ 100-150  $\approx$  2,5, subrectæ, simplices; conidia ex ellipsoideo oblongo-cylindræa, 1-septata, 5-7  $\approx$  2,5, utrinque obtusa.

9. **Cladosporium Zeæ** Peck 46 Rep. p. 34.

3969

*Hab.* in caryopsidibus immaturis Zeæ Maydis Menands Amer. bor. — Hyphæ steriles repentes, hyalinæ, subcutaneo-erumpentes; fertiles parce septatæ, dense intertextæ, griseo-virentes, velutinæ; conidia varia, elliptica v. oblonga, 4-20  $\mu$ . longa, continua v. 1-3-septata.

*Species, quarum diagnosis mihi deest.*

10. *Cladosporium asperococcum* Oud. in Roum. F. Gall. n. 4592. 3970
11. *Cladosporium Gleditschiæ* Cooke in Ray. F. Amer. n. 297 (in le- 3971  
guminibus *Gleditschiæ* in Amer. bor.).
12. *Cladosporium subnodosum* Cooke in Rav. Fung. Amer. n. 294 3972  
(in foliis *Spinaciæ* in Amer. bor.).
13. *Cladosporium subtile* Rabenh. Fung. Eur. n. 2364 (in legumi- 3973  
nibus *Leucænæ glaucæ*, Calcutta).
14. *Cladosporium apiculatum* Berk. Herb. (in *Heliantho* in Caro- 3974  
lina inf.).
15. *Cladosporium pelliculosum* B. et Curt. in Herb. Ravenel. 3975
16. *Cladosporium Ulmaræ* Grog. in Roum. F. Gall. n. 3697 (in Ul- 3976  
maria in Gallia).

### Sect. 3. Phragmosporæ.

Subsect. 1. *Micronemæ* Sacc.

Trib. 1. *CLASTEROSPORIÆ* Sacc.

**CLASTEROSPORIUM** Schw. — Syll. IV, p. 382, X, p. 606.

1. *Clasterosporium pulcrum* E. et E. New sp. North Am. Fung. in 3977  
Proceed. Acad. S. N. Philad. 1893, p. 169.

*Hab.* in cortice *Carpini americanæ*, London Canada Amer. bor. — Effusum, velutinum, atrum; hyphæ septatæ, repentes, intertextæ, erectæ, ex tuberculo perithecioides oriundæ; conidia clavata, curvula, truncata 7-9-septata, atra, cellula terminali pallidiore, processibus quaternis lateralibus ornata.

2. *Clasterosporium Populi* Ell. et Ev. Journ. Myc. VII, p. 134. 3978

*Hab.* in areis emortuis foliorum *Populi tremuloidis*, London Canada (DEARNESS). — Conidia clavata 1-2-septata; olivaceo-brunnea 18-25  $\approx$  7-9, ad septa sæpius constricta, apice subtruncata; hyphæ e mycelio obsoleto.

3. *Clasterosporium olivaceum* E. et E. Proceed. Acad. N. Sc. Philad. 3979  
1893, p. 463.

*Hab.* in culmis vetustis *Zæe Maydis*, Newfield N. J. Amer. bor. — Effusum, velutinum, tenue, olivaceo-atrum; hyphæ repentes, ramosæ; conidia cylindræa, 4-8-septata, constricta, obtusa 20-25  $\approx$  6, ex hyphis immediate oriunda.

**STIGMINA** Sacc. — Syll. IV, p. 394.

1. **Stigmia Liriodendri** E. et E. New sp. North Am. Fung. in Pro- 3980  
ceed. Acad. S. N. Philad. 1893, p. 171.

*Hab.* in foliis languidis *Liriodendri tulipiferae*, Mississipi Amer. bor. (TRACY). — Maculae amphigenae atro-brunneae, flavo-marginatae; acervuli hypophylli, peripherici; conidia tereti-oblonga, brunnea, 1-3-septata, 10-15  $\approx$  3,5-4, non constricta, interdum 3-4-catenulata.

**CRYPTOCORYNEUM** Fuck. — Syll. IV, p. 395, X, p. 608,

**Cryptocoryneum Psammæ** Oud. Contr. Myc. Pays-bas XIV, p. 57. 3981

*Hab.* in foliis *Psammæ arenariae*, Schéveningue Nederlandiae. — Caespituli primo hyalini, dein fusciscentes; conidia partim recta, partim falcata, 5-7-septata, 23-28  $\approx$  2,3-3,5.

**Cryptocoryneum aureum** P. Viala Monogr. Pourr. p. 102, t. VII, 3982  
f. 42, Les Mal. de la vigne 3 édit. p. 323, fig. 125.

*Hab.* in truncis *Vitis viniferae* emortuis in Gallia. — Caespituli densi, aureo-brunnei; conidia fasciculata, cylindrica, apice rotundata, deorsum breviter attenuata, 35-40-locularia, rectiuscula, aurea, 250-300  $\approx$  8.

**CERATOPHORUM** Sacc. — Syll. IV, p. 495.

*Subgen.* **PLEIOCHÆTA** Sacc. in O. Kirchn. l. infra c. Conidia apice 2-plurisetigera. — Huc quoque spectant *Cer. tripartitum* et *C. hypodermium* (?).

1. **Ceratophorum setosum** O. Kirchner Zeitschr. f. Pflanzenkr. 1892, 3983  
p. 324, cum icon.

*Hab.* in foliis caulibusque plantularum *Cytisi capitati* pr. Hohenheim Germaniae. — Maculae brunneae, amphigenae et caulogenae; hyphae steriles diffusae 7-8  $\mu$ . cr., septatae, ramosae, hyalinæ; conidia hinc inde orta, sessilia, tereti-fusoidea, 3-8-sæpius 6-locularia, ad septa leniter constricta, fusco-brunnea, 40-80  $\approx$  15-19, apice setis filiformibus, acutis, conidium subaequantibus, hyalinis ornata.

*Trib.* 2. **SEPTONEMAE** Sacc.

**SEPTONEMA** Corda — Syll. IV, p. 397, X, p. 609.

1. **Septonema toruloides** Berl. Bull. Soc. Myc. 1892, p. 103, t. X, 3984  
f. 18-20.

*Hab.* in caulibus herbaceis putridis, Avellino Ital. merid. —



Cæspituli densi velutini, atro-olivacei, varii; hyphæ steriles repentes vix fusciculæ, ramosæ; fertiles brevissimæ, 2-3-septatæ, cellula summa majore, muriculata, fuliginea; conidia 3-4-cellularia, olivacea, 16-22  $\approx$  5-6, in catenas ramosas digesta, cellula conidiorum suprema sæpius muriculata, saturatiore.

2. **Septonema Henningsii** Bresad. in Henn. F. Æthiop. I. p. 120. 3985

*Hab.* in foliis vivis Rhododendri abyssinici pr. Akrur Erythrææ.

— Cæspituli maculoso-aggregati, fusci, velutini; conidia catenulata, mox secedentia, oblongo-fusoidea, lutea, 1-3-septata, non constricta, 3 $\frac{1}{2}$ -50  $\approx$  4-4.5.

3. **Septonema minutum** Berl. et Roum. Rev. myc. 1887, p. 164. 3986

*Hab.* in foliis emortuis Eucalypti Globuli pr. Coimbra Lusitanicæ. — Cæspituli tenues, punctiformes; catenulæ simplices, 42-48  $\approx$  6-7; articuli oblongo-ellipsoidei, 1-2-septati, subinde septo longitudinali accedente, 18-21  $\approx$  6-7, fuligineo-ochracei.

4. **Septonema fuscum** Otth in Trog Bern. Mittheil. 1857, p. 45. 3987

*Hab.* in lignis putridis Bremgartenwald Helvetiæ. — Cæspituli convexi, atro-brunnei; conidia elongato-ellipsoidea, grisea, sæpius distincte 2-septata.

5. **Septonema fallax** Otth in Trog. Bern. Mittheil. 1857, p. 45. 3988

*Hab.* in truncis decorticatis putridis Fraxini in Helvetia. — Conidia ellipsoidea, septata.

Trib. 3. HELMINTHOSPORIÆ Sacc.

**HELMINTHOSPORIUM** Link — Syll. IV, p. 402, X, p. 610.

1. **Helminthosporium folliculatum** Corda — Syll. IV, p. 414. — forma 3989

*Ligni* Faut. et Lamb. Rev. Myc. 1894, pag. 75, tab. CL, f. 5. — Hyphis brevibus, coloratis, septatis, sparsis v. inter productiones lichenicas aggregatis, nudo oculo imperspicuis; maculis rufescentibus; conidiis solitariis, acrogenis, irregularibus, truncatis, curvatis, 5-9-septatis, ex hyalino flavidis, 50-60  $\approx$  10-12.

*Hab.* ad ligna abiegna, Côte-d'Or Galliæ.

2. **Helminthosporium compactum** Karst. Hedw. 1892, p. 295. 3990

*Hab.* in caulibus aridis Spirææ Ulmaricæ pr. Oppidum Fennicæ. — Cæspituli elongati v. suborbiculares; hyphæ fasciculatæ, simplices, flexuosæ, 70-125  $\approx$  6-12, fuliginæ; conidia ellipsoidea, 1-4-septata, dilute fuliginea, 13-24  $\approx$  6-9.

3. **Helminthosporium Rhododendri** Rostr. Ost. Grönl. Svamp. p. 31. 3991

*Hab.* in foliis siccis Rhododendri lapponici, Danmarks Groenlandicæ. — Epiphyllum, cæspitosum, fasciculatum; hyphæ

atro-fuscae, septatae, 6-7  $\mu$ . cr.; conidia cylindracea, obtusa, 3- (raro 2-)-septata, obscure fusca, 4-guttata, 22-28  $\approx$  6-7.

4. **Helminthosporium cymbispermum** Pat. Bull. Soc. Myc. 1893, p. 162. 3192

*Hab.* in foliis Rubi sp. Corazon Æquatoriae. — Cæspituli sæpius nervisequii, atri; hyphæ 250  $\approx$  3. fuligineo-olivaceæ, monosporæ; conidia cymbiformia, 3-septata, fuliginea, extus verrucosa, ad septa valde constricta, 25-30  $\approx$  16.

5. **Helminthosporium Sesseæ** Pat. Bull. Myc. 1893, p. 162. 3193

*Hab.* in foliis Sesseæ sp., Monte redondo Æquatoriae. — Cæspituli hypophylli, velutini, brunnei; hyphæ sursum ochraceo-fuligineæ, sensim dilatatae, septatae, 4-6  $\mu$ . cr.; conidia 50-100  $\approx$  8-12, teretia v. clavulata, 3-10-septata, levia v. rugulosa, luteolo-fuliginea.

6. **Helminthosporium podosporiopsis** Pat. Bull. Boiss. 1895, p. 74. 3194

*Hab.* parasitica in *Meliola Rimbachii*, Gualaquiza in Æquatoria. — Maculae atræ, velutinæ, hypophyllæ; hyphæ 250  $\approx$  5, simplices, septatae, vinoso-fuligineæ; conidia pleuro-acrogena, fusoido-clavulata, utrinque obtuse attenuata, 3-4-septata, levia, vinoso-fuliginosa.

7. **Helminthosporium acuum** Karst. Hedw. 1892, p. 295. 3195

*Hab.* in acubus Pini prope Mustiala Fenniae. — Cæspituli cinereo-nigri, subsolitarii; hyphæ fasciculatae, erectae, subsimplices, septatae, flexuosae, torulosae, dilute fuligineæ, 200  $\approx$  5-7; conidia 31  $\approx$  12, oblongo-ellipsoidea, 1-3-septata, cerina (sub lente).

8. **Helminthosporium Psammæ** Oud. Contr. Myc. Pays-bas XIV, p. 58. 3196

*Hab.* in foliis *Psammæ arenariae*, Schéveningue Nederlandiae (DESTREE). — Effusum, nigrum; hyphæ simplices, 3-5-septatae, 50  $\approx$  4, badiæ; conidia singula, oblonga, fusciscentia, 6-9-septata, basi hyalino-apiculata, apice truncata, 50  $\approx$  7.

# **BRACHYSPORIUM** Sacc. — Syll. IV, p. 423, X, p. 617.

1. **Brachysporium graminis** Boy. et Jacz. Mat. mycol. Montpell. p. 48, 3207 fig. 11.

*Hab.* in gramineis pr. Montpellier. — Conidia oblongo-obovata, 48  $\approx$  16, quadrisepata, brunnea; hyphæ simplices, fasciculatae, pluriseptatae, brunneae.

2. **Brachysporium canadense** Ell. et Ev. Journ. Myc. VII, p. 134. 3208

*Hab.* parasitice in *Valsa ambiente* ad ramos *Aceris*, Otawa Canada Amer. bor. (MACOUN). — Hyphæ simplices, brunneae, septatae, 200-300  $\approx$  5, acervulos tabacinos formantes; conidia ter-

Hyphomycetæ, Dematiæ, Phragmosporæ, Cercospora. 625  
 minalia, obovato-ellipsoidea, pallide brunnea, 1-3-septata, 20-40  $\approx$  12-15.

**CERCOSPORA** Fresenius. — Syll. IV, p. 431, X, p. 618.

1. *Cercospora Merrowii* Ell. et Ev. Proc. Acad. Phil. 1894, p. 380. 3999

*Hab.* in foliis *Isopyri thalictroidis* Michigan Amer. bor.  
 — Cæspituli hypophylli, in partibus arescentibus foliorum siti; hyphæ simplices, clavatæ, continuæ, 15-30  $\approx$  4, flavidæ; conidia hyalina, 1-3-septata, 15-60  $\approx$  4-6.

2. *Cercospora atro-grisea* E. et E. Proceed. Acad. N. Sc. Philad. 464. 4000

*Hab.* in caulibus et siliquis languidis *Raphani sativi*, Newfield N. J. Amer. bor. — Hyphæ cæspitosæ, a basi tuberculari oriundæ 60-70  $\approx$  4, pallide brunneæ; conidia 80-110  $\approx$  3,5-4, hyalina, obclavata, 6-12-septata; maculæ nullæ; cæspituli confluentes, atro-grisei.

3. *Cercospora exotica* E. et E. Proceed. Acad. N. Sc. Philad. p. 4001  
 463 (1893).

*Hab.* in foliis *Nymphææ* ejusdam cultæ, Chicago Amer. bor. (SMITH). — Maculæ epiphyllæ, brunneæ; hyphæ subolivaceæ, subsimplices, 25-40  $\approx$  2,5-3; conidia multi-septata, hyalina 80-150  $\approx$  3-3,5, subrecta.

4. *Cercospora lilacina* Bres. Hedw. 1892, p. 41. 4002

*Hab.* in foliis *Violæ palustris* pr. Königstein et Nossen Saxonæ. — Cæspituli hypophylli, lilacino-fusculi; hyphæ longissimæ, repentes, septatæ, luteolæ, 4-6  $\mu$ . cr.; conidia cylindræa, falcata, flexuosa v. subrecta, chlorino-hyalina, 1-8-septata, 50-75  $\approx$  5-6,5.

5. *Cercospora Neseæ* E. et E. New Sp. North Am. Fung. Proceed. 4003  
 Acad. S. N. Philad. 1893, p. 170.

*Hab.* in foliis *Neseæ verticillatæ*, Delaware Amer. bor. (COMMONS). — Maculæ amphigenæ, purpureo-marginatæ; hyphæ epiphyllæ, cæspitosæ, 35-45  $\approx$  2,5-3, continuæ, fumoso-olivaceæ geniculatæ; conidia tereti-clavata, hyalina, 3-5-septata, 25-75  $\approx$  2,5-3.

6. *Cercospora Enotheræ* Ell. et Ev. Proc. Acad. Phil. 1894, p. 380. 4004

*Hab.* in foliis *Enotheræ biennis*, Virginia occid. (NUTTALL). — Maculæ irregulares, griseo-brunneæ; hyphæ amphigenæ, subhyalinæ, subundulatæ, continuæ v. 1-2-septatæ, 15-20  $\approx$  3, cæspitosæ; conidia fumose hyalina, nucleata, tenuiter 2-5-septata, 25-80  $\approx$  2-2,5, recta v. curvula.

7. *Cercospora columnaris* Ell. et Ev. Proc. Acad. Phil. 1894, p. 380. 4005

*Hab.* in foliis Phaseoli culti, Newfield N. J. Amer. bor. — Amphigena sed sæpius hypophylla; hyphæ erectæ, in columnam fasciculatæ, 150-230  $\times$  4, brunneæ, parce septatæ; conidia teretiblonga 1-5-septata, brunneola, curvula, 40-60  $\times$  5-6. — Habitus fere *Isariopsisidis*.

8. *Cercospora Glycines* Cooke Grev. XXI p. 39.

4006

*Hab.* in foliis vivis Glycines clandestinæ, Victoria Australiæ (MORRISON). — Maculæ definitæ, umbrinæ; cæspituli amphigeri, punctiformes, atrii; hyphæ breves, dense fasciculatæ, olivaceæ; conidia 30-35  $\times$  2, cylindræ, subhyalina, obsolete septata, guttulata.

9. *Cercospora Cassiæ* P. Henn. F. Æthiop. I, p. 121.

4007

*Hab.* in foliis vivis Cassiæ goratensis pr. Akrur Erythrææ. — Maculæ amphigenæ, fuscae; cæspituli hypophylli, fusco-brunnei; hyphæ laxè fasciculatæ, parce septatæ, fuliginæ; conidia 21-50  $\times$  8-12, longè clavata, e flavido fuscidula, 3-pluriseptata.

10. *Cercospora Kriegeriana* Bres. Hedw. 1892, p. 41.

4008

*Hab.* in foliis Sorbi aucupariæ, Königstein Saxonæ (KRIEGER). — Maculæ amphigenæ, supra rufo-fuscae; hyphæ hypophyllæ subramosæ, luteolæ, septatæ, 45-75  $\times$  5-6; conidia chlorino-hyalina, 1-3-septata, 20-40  $\times$  4-6.

11. *Cercospora Scandicearum* Magn. Peronosp. Brandenb. p. 68.

4009

*Hab.* in foliis Chærophylli temuli et Anthrisci, Brandenburg et Italia helvetica. — Conidia 1-3 septata, 26-45  $\mu$ . long. in Chærophylllo) v. 53-66  $\mu$ . long. (in Anthrisco), articulis 13-20  $\mu$ . longis; hyphæ pallide brunneæ.

12. *Cercospora sessilis* Sorok. Paras. p. 30, t. IV, f. 53-54.

4010

*Hab.* in foliis Vitis viniferæ, sociâ *Plasmopara*, in Caucaso. — Maculæ atro-fuscae, epiphyllæ; hyphæ brevissimæ; conidia 45-65  $\times$  6-7, grisea, sursum tenuata, 3-5-septata.

13. *Cercospora ribicola* Ell. et Ev. Proc. Acad. Phil. 1894, p. 379.

4011

*Hab.* in foliis Ribis sanguinei, Washington (PIPER). — Maculæ rufo-brunneæ, copiosæ; cæspituli epiphylli, sphaeriæformes; hyphæ pallide brunneæ, continuæ, simplices, 25-35  $\times$  3,5-4; conidia lanceolata, hyalina 1-3-septata, 35-80  $\times$  3-4.

14. *Cercospora fuliginosa* E. et E. New West-Amer. Fung. p. 26, in Erythea vol. II, (1894).

4012

*Hab.* in foliis Ceanothi arborei in California (MAC CLATCHEE). — Maculæ orbiculares, brunneolæ, amphigenæ; hyphæ amphigenæ, cæspitosæ, 25-40  $\times$  5, subolivaceæ, subtorulosæ, septatæ;

conidia cylindracea, obtusa, 4-septata, 30-40  $\approx$  5-6, rarius 6-septata 40-60  $\approx$  6, atro-fuliginea.

15. **Cercospora melanochæta** Ell. et Ev. Proc. Acad. Phil. 1894, p. 380. 4013

*Hab.* in foliis *Celastris scandentis*, Kansas Amer. bor. (BARTHOLOMEW). — Maculæ amphigenæ, ardesiacæ, centro pallidæ; hyphæ atro-brunnæ, subundulatæ, septatæ, 40-60  $\approx$  3,5-4, cæspitulos sphaeriæformes formantes; conidia tereti-clavata, brunnea, 3-5-septata, 40-70  $\approx$  4-5.

16. **Cercospora Melastomatis** Pat. Bull. Soc. Myc. 1893, p. 160. 4014

*Hab.* in foliis *Melastomatis spec. Pululahua* Æquatoriæ. — Maculæ epiphyllæ rufo-purpureæ, centro albidæ; cæspituli epiphylli, punctiformes, atri; hyphæ 100-150  $\approx$  6-7, subramosæ, pluriseptatæ, fuscae; conidia 50-60  $\approx$  6-7, fuscidula, pluriseptata.

17. **Cercospora Arracachæ** Pat. Bull. Soc. myc. 1892, p. 137, t. XI, f. 5. 4015

*Hab.* in foliis *Arracachæ sp. pr. Jervas buenas* Æquatoriæ. — Maculæ nullæ; cæspituli hypophylli; hyphæ 50  $\approx$  8-10, fusco-brunnæ, subsimplices, torulosæ; conidia 38-48  $\approx$  7-9, hyalina, demum 3-septata.

18. **Cercospora tenuis** Peck 47 Rep. p. 23. 4016

*Hab.* in foliis viventibus *Galii pilosi*, Riverhead Amer. bor. — Maculæ magnæ rufo-brunnæ; hyphæ 40  $\approx$  6, obscure septatæ, coloratæ; conidia hyalina 1-3-septata, sursum attenuata, 40  $\approx$  6.

19. **Cercospora Borreriæ** Ell. et Ev. Proc. Acad. Phil. 1894 p. 379. 4017

*Hab.* in foliis *Borreriæ micranthæ*, Biloxi Miss. Amer. bor. (TRACY). — Hypophylla; cæspituli effusi, olivacei; hyphæ undulato-crispæ, geniculatæ, 100-120  $\approx$  3-3,5, brunneæ, subseptatæ; conidia lanceolata, hyalina, 3-5-septata, 35-45  $\approx$  3-3,5.

20. **Cercospora olivacea** Otth Bern. Mittheil. 1868, p. 65. 4018

*Hab.* in foliis *Artemisiæ Absinthii*, Bern Helvetiæ. — Cæspituli olivacei; hyphæ breviusculæ, flexuosæ, subfurcatæ; conidia versiformia, elongata v. longissima, tereti-obclavata, 2-6-locularia, pallida, 20-74  $\approx$  5-8. — Verisimiliter eadem ac *C. Absinthii* (Peck) quæ posterior; adest alia et diversa *C. olivacea* (B. et Rav.). Cfr. Syll. IV, p. 444 et 462.

21. **Cercospora Baccharidis** Ell. et Ev. Proc. Acad. Phil. 1894, p. 379. 4019

*Hab.* in foliis *Baccharidis Douglasii*, Berkeley Californiæ. — Cæspituli effusi, amphigeni, pallide rosei; hyphæ densè cæspitosæ, simplices, hyalinæ, subcontinuae, 25-40  $\approx$  5; conidia cylindrica, hyalina, utrinque obtusa, 1-3-septata. « An *Cercospora*? ».

22. **Cercospora Cirsii** Ell. et Ev. Proc. Acad. Phil. 1894, p. 379. 4020

*Hab.* in foliis Cnici remotifolii, Washington Amer. bor. (PIPER). — Maculæ atro-brunnæ, suborbiculares; hyphæ epiphyllæ, cæspitulosæ, pallide brunneæ, subintegræ, 15-30  $\times$  3,5-4; conidia hyalina, 4-6-septata, 50-80  $\times$  3,5.

23. **Cercospora ditissima** New Sp. North. Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 171. 4021

*Hab.* in foliis Cnici undulati, Kansas Amer. bor. (BARTHOLOMEW). — Maculæ sordide brunneæ; hyphæ amphigenæ, cæspitulosæ, 15-20  $\times$  2,5-3, e tuberculo atro oriundæ; conidia 30-75  $\times$  4-6, subhyalina, recta, 3-4-septata.

24. **Cercospora clavicarpa** E. et E. New West-Amer. Fung. p. 26, 4022 in Erythea Vol. II, (1894).

*Hab.* in foliis Ptilosiae (?) virgatæ, California (MAC CLATCHIE). — Maculæ tabacinæ, flavido-marginatæ; hyphæ e tuberculo enatæ; amphigenæ, flavidæ, continuæ, flexæ, 15-20  $\times$  3,5-4; conidia breviter cylindræa, 1-2-septata, 15-30  $\times$  5-6, rarius 50-85  $\mu$ . longa, 2-5-septata, flavida. (Bot. Soc. Brit. Columbia, III, 1885, p. 60)

25. **Cercospora nigrescens** Wint. Contr. Mycol. Lusit. VI, p. 15. 4023

*Hab.* in foliis vivis Solani nigri, Cidral pr. Coimbra Lusitaniæ. — Maculæ amphigenæ, atro-cinereæ, area flavida cinctæ; hyphæ sæpius hypophyllæ, continuæ, 20-30  $\times$  5, fusciculæ; conidia 60-80  $\times$  3,5, hyalina, 9-septata.

26. **Cercospora Nicotianæ** E. et E. New Sp. North Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 170. 4024

*Hab.* in foliis Nicotianæ Tabaci, Raleigh N. C. Amer. bor. — Maculæ amphigenæ, pallidæ; hyphæ cæspitulosæ, 75-100  $\times$  4-5, geniculatæ, septatæ; conidia 40-75  $\times$  3-3,5, hyalina, curvula, sæpius 6-septata.

27. **Cercospora Gerardiae** Ell. et Dear. New Spec. Canad. Fung. in Canad. Rec. Sc. 1893, p. 271. 4025

*Hab.* in foliis Gerardiae quercifoliæ, Walpole Island Canada. — Maculæ hypophyllæ; hyphæ cæspitulosæ, olivaceæ, simplices, septatæ, denticulatæ, 25-45  $\times$  3-7; conidia 3-5-septata, subolivacea, 50-112  $\times$  3-3,5.

28. **Cercospora Weigeliae** E. et E. New Sp. North Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 170. 4026

*Hab.* in foliis Weigeliae cultæ, Newfield N. J. Amer. bor. — Maculæ albidæ, atro-purpureo-marginatæ; hyphæ cæspitulosæ, ge-

niculatae, denticulatae, 70-90  $\times$  3,5-4,5, brunneae; conidia 50-75  $\times$  2,5-3, hyalina, nucleata,

29. **Cercospora Briareus** Ell. et Ev. Proc. Acad. Phil. 1894, p. 381. 4027

*Hab.* in foliis Aceratis viridiflorae pr. Elkton Md. Amer. bor. (COMMONS). — Maculae amphigenae, minutae, purpurascens; hyphae laxae fasciculatae, subundulatae, simplices, aequales, olivaceo-brunneae, continuae v. 1-3-septatae, 35-45  $\times$  5-6; conidia 40-80  $\times$  3,5-4,5, subrecta, brunneola, 6-8-septatae.

30. **Cercospora Hansenii** E. et E. New Californ. Fung. 1893, p. 147. 4028

*Hab.* in foliis Asclepiadis ecornutae in California (Geo. HANSEN). — Maculae amphigenae, sordide brunneae; hyphae 16-15  $\times$  5-6, simplices, olivaceae, continuae, e tuberculo oriundae; conidia cylindracea, olivacea, 30-50  $\times$  4, utrinque obtusa, 1-4-septata.

31. **Cercospora Euphorbiae** Pat. Bull. Soc. Myc. 1893, p. 100/60. 4029

*Hab.* in foliis Euphorbiae spec. arborescentis, Cotocollao Aequatoriae. — Maculae orbiculares, sparsae, amphigenae, supra griseae, brunneo-marginatae; caespituli nigro-olivacei; hyphae 20  $\times$  3, simplices, subhyalinae; conidia 80-100  $\times$  4, obtusa, continua dein tenuiter pluriseptata, dilute colorata.

32. **Cercospora Crotonis** E. et E. New Sp. North Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 170. 4030

*Hab.* in foliis Crotonis texensis, Kansas Amer. bor. (BARTHOLOMEW). — Maculae indefinitae, pallidae; caespituli epiphylli, punctiformes, atri; hyphae olivaceo-brunneae, tortuosae, 35-50  $\times$  4; conidia 40-90  $\times$  4-5, obclavata, brunnea, subrecta, 1-4-septata.

33. **Cercospora Odontoglossi** Prill. et Delacr. Bull. Soc. Myc. 1893, p. 270, t. XIII, f. 2. 4031

*Hab.* in pag. inf. foliorum Odontoglossi crispis, quae enecat, Versailles Galliae. — Effusa, velutina, brunneo-olivacea; hyphae erectae, 100-150  $\times$  3-4, subinde furcatae, sinuosae; conidia 45-80  $\times$  4-5, subhyalina, 2-3-septata, sursum tenuata.

34. **Cercospora Pontederiae** Ell. et Dear. New Spec. Canad. Fung. in Canad. Rec. Sc. 1893, p. 271. 4032

*Hab.* in foliis Pontederiae cordatae, Canada. — Maculae rufo-brunneae, indefinitae; hyphae epiphyllae, caespitosae, e tuberculo enatae, subhyalinae, simplices, continuae, subrectae, 10-15  $\times$  2,5; conidia tenuiter nucleata, 15-40  $\times$  2, recta v. curvula « An *Cercospora* species? »

35. **Cercospora Sacchari** v. Breda Rood-Rot p. 15. 4033

*Hab.* in foliis, quae maculantur, Sacchari officinarum

West-Java. — Hyphæ pluriseptatæ, brunneæ 120-160  $\mu$ . long.; conidia 60-80  $\times$  9-12, vermicularia, 5-8-septata, brunnea.

**HETEROSPORIUM** Klotzsch — Syll. IV, p. 480, X, p. 657.

1. **Heterosporium Galii** Fautr. et Roum. Rev. Myc. 1892, p. 106. 4034

*Hab.* in caulibus Galii Molluginis, Côte-d'Or Galliæ. — Hyphæ fasciculatæ, cæspitosæ, dilute coloratæ, septatæ, 60-100  $\times$  8-10; conidia oblongo-rotundata, echinulata, 1-3-septata, 30  $\times$  14.

2. **Heterosporium sphaeriæforme** Ell. et Ev. Proc. Acad. Phil. 1894, 4035 pag. 381.

*Hab.* in caulibus emortuis Eriogoni, Colorado Amer. bor. (BAKER). — Hyphæ fasciculatæ olivaceæ, cæspitulos sphaeriæformes formantes; conidia ellipsoidea v. oblonga, 1-4-septata, 12-30  $\times$  8-12, minute echinulata.

3. **Heterosporium caulicolum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 381. 4036

*Hab.* in caulibus putridis Rumicis occidentalis, Colorado Amer. bor. — Cæspituli effusi; hyphæ obtusæ, olivaceo-brunneæ, septatæ, toruloso-geniculatæ, 80-110  $\times$  4-5; conidia ellipsoidea v. oblonga, pallide flavo-brunnea, 1-3-septata, 12-26  $\times$  7-10, minute echinulata.

4. **Heterosporium tuberculans** E. et E. New West Amer. Fung. in 4037 Erythea p. 203.

*Hab.* in caulibus herbaceis, emortuis, Colorado Amer. bor. (BAKER). — Hyphæ subfasciculatæ, remote septatæ, olivaceo-brunneæ, 100-150  $\times$  5-6, simplices, noduloso-geniculatæ; conidia ellipsoidea v. oblonga, olivaceo-brunnea, 1-3-septata, granulato-rugosa, 15-30  $\times$  8-12, acro-pleurogena.

5. **Heterosporium Eucalypti** Ell. et Ev. Proc. Acad. Phil. 1894, p. 381. 4038

*Hab.* in foliis emortuis Eucalypti, California (MAC CLATCHIE). — Cæspites hypophylli, olivaceo-brunnei; hyphæ subfasciculatæ, pallide flavo-brunneæ, vix septatæ, 70-80  $\times$  4-5, geniculato-subundulatæ; conidia oblongo-ellipsoidea, 1-2-septata, pallide flavida, echinulata, 15-27  $\times$  10-12.

6. **Heterosporium Trillii** Ell. et Ev. Proc. Acad. Phil. 1894, p. 382. 4039

*Hab.* in foliis partim emortuis Trillii ovati, Latah Co. Idaho Amer. bor. (PIPER). — Cæspituli grisei albido-marginati, mox confluentes, ferrugineo-brunnei; hyphæ 30-50  $\times$  5-6, denticulato-flexuosæ, subseptatæ; conidia 12-30  $\times$  5-8, minute echinulata, flavido-brunnea, 1-3-septata.

7. **Heterosporium didymosporium** Clem. Bot. Surv. Nebr. Rep. III. 4040



Hyphomyceteæ, Dematiæ, Phragmosporæ, Dendryphium. 631  
 1833, II. — Effusum, atro-virens; hyphis longissimis, flexuosis, parce ramosis, fuscis, septatis,  $200 \approx 6$ ; conidiis tereti-oblongis v. obovatis, utrinque rotundatis, laxe aculeolatis, olivaceis, 1- raro 2-3-septatis, valde constrictis,  $20-25 \approx 10-12$ .

*Hab.* in fructibus Macluræ (*osage orange*) Lincoln Nebraska Americæ borealis.

8. **Heterosporium Beckii** Bäuml. Zur Pilzfl. Niederöst. VI, p. 104. 4041

*Hab.* in cortice Cucurbitæ Peponis putridæ, Währling Austriæ inf. — Hyphæ dense et late fasciculatæ, brunneæ, nodosæ, septatæ,  $50-110 \approx 4-5$ ; conidia reniformia,  $14-25 \approx 6-8$ , initio continua dein 1-3-septata, utrinque rotundata, læte brunnea, aculeolata.

9. **Heterosporium cladosporioides** Ell. et Ev. Proc. Acad. Phil. 1894, 4042 p. 382.

*Hab.* ad chartam brunneam udam, Michigan Amer. bor. (JOHNSON). — Maculiforme; hyphæ  $90-110 \approx 4-5$ , septatæ, undulato-nodosæ; conidia  $10-16 \approx 5-7$ , minute echinulata, pallide brunnea, 1-2-septata.

**NAPICLADIUM** Thüm. em. Sacc. — Syll. IV, p. 481, X, p. 660.

1. **Napicladium Thalictri** Bäuml. Zur Pilzfl. Niederöst. VI, p. 104. 4043

*Hab.* in pag. inf. foliorum Thalictri minoris pr. Baden Austriæ infer. — Cæspituli punctiformes, erumpentes; hyphæ  $20-28 \approx 4$ , atro-flavidæ; conidia initio continua,  $14 \approx 3-4$ , dein 2-3-septata  $30-35 \approx 6-8$ , apice rotundata, fusco-flava.

2. **Napicladium gramineum** Peck 46 Rep. p. 34. 4044

*Hab.* in foliis vivis Poæ trivialis, Delmar. Amer. bor. — Maculæ elongatæ brunneæ; cæspituli minuti, nigri; hyphæ breves, nodulosæ; conidia clavata, 1-3-septata,  $30-60 \approx 10-12$ .

*Trib. 4. DENDRYPHIÆ* Sacc.

**DENDRYPHIUM** Wallr. — Syll. IV, p. 487, X, p. 662.

1. **Dendryphium sphærioides** E. et E. New Sp. north Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 169. 4045

*Hab.* in caulibus emortuis Bigelowiæ Douglasii, Nevada Amer. bor. (JONES). — Cæspituli tuberculiformes, nigri; catenæ conidiorum fasciculatæ  $120 \approx 10-12$ ; conidia  $20 \approx 10-12$ , constrictio-1-septata, brunnea, isthmis nullis.

## Sect. 4. Dictyosporæ.

## Subsect. 1. Micronemææ SACC.

**SPORODESMIUM** Link — Syll. IV, p. 497, X p. 665.

1. *Sporodesmium subcupulatum* Ell. et Ev. Proc. Acad. Phil. 1894, 4046  
p. 384.

*Hab.* in ramis v. truncis Sambuci melanocarpæ, Colorado Amer. bor. (BAKER). — Tuberculiforme, erumpens, dein concavum, sæpe oblongum; conidia olivacea, muriformi-septata, subglobosa 10-15  $\mu$ . diam. v. clavato-oblonga, 20-30  $\approx$  10-12, subsessilia.

2. *Sporodesmium tuberculiforme* Ell. et Ev., n. sp. Proc. Acad. Phil. 4047  
1894, p. 384.

*Hab.* in ramis emortuis Sambuci racemosæ, Colorado Amer. bor. (CRANDALL). — Acervuli tuberculiformes, nigri, plani; conidia olivaceo-fusca, inæqualia, subcuboidea, subglobosa, 8-20  $\mu$ . diam., e 2-20 cellulis varie conglomeratis formata.

3. *Sporodesmium Onnii* Karst. Symb. Myc. Fenn. XXX, p. 67. 4048

*Hab.* ad caulem putrem Brassicæ Napi var. Napobrassicæ, Mustiala Fennicæ. — Cæspituli effusi, griseo-fusci; conidia longe clavata, olivaceo fuliginea, constricto-8-11-septata, 80-88  $\approx$  16, loculis nonnullis longitr. divis; pedicellus pallidior, 4-5-septatus, 10-45  $\approx$  4-5.

4. *Sporodesmium Durantæ* Pat. Bull. Boiss. 1895, p. 74. 4049

*Hab.* in pag. inf. foliorum Durantæ spec. Pululahua Æquatoricæ. — Cæspituli nigri, punctiformes; conidia ovoidæa, supra truncata, infra conoidea, medio constricta, dein longitudinaliter 1-2-sulcata, brunnea, 23-38  $\approx$  20-26, multicellularia; pedicelli hyalini, longissimi, 50-110  $\approx$  3.

5. *Sporodesmium populinum* Bresad. Hedw. 1895, p. (66). 4050

*Hab.* in foliis Populi moniliferæ, pr. Berolinum (P. Synchron). — Cæspituli nigri, amphigeni; conidia 40-60  $\approx$  10-15, 7-12-septato-muriformia, fuscidula.

6. *Sporodesmium fructigenum* Ell. et Ev. Proc. Acad. Phil. 1894, 4051  
pag. 384.

*Hab.* in fructibus Piri Mali, New Mexico Amer. bor. (Wootton). — Cæspituli velutini dein late effusi, atri, tenues; conidia subglobosa, flavida, demum subopaca, muriformi-multi-septata, 12-26  $\mu$ . diam., stipitata.

7. **Sporodesmium Maydis** Thüm. in Rab. F. Eur. n. 1575 (in Herb. 4052 Brux.), Sacc. Fungi herb. Bruxell. n. 43. — Specimina obsoleta potius ad Macrosporii et Cladosporii formas pertinent.

*Hab.* ad folia sicca Zeæ Maydis in Græcia.

**STIGMELLA** Lév. — Syll. IV, p. 507, X, p. 667.

1. **Stigmella rubicola** Bres. Hedw. 1894, p. 210. 4053

*Hab.* in foliis Rubi Idæi, præsertim in maculis Phyllostictæ, Königstein Saxonie. — Conidia fusca obovata, 3-septato-muriformia; 15-18 × 7-12, interdum globulosa, sarciniformia, 9 × 8.

**CONIOTHECIUM** Corda — Syll. IV, p. 508, X, p. 668.

1. **Coniothecium macrosporum** Sorok. Paras. p. 38, t. V, f. 6b. 4054

*Hab.* in ramis Vitis viniferae, in Caucaso. — Subcutaneo-erumpens, dein pulveraceum, atrum; conidia nunc catenulata nunc varie sarciniformi-aggregata, subglobosa, 4-5  $\mu$ . diam., saturate brunnea.

2. **Coniothecium pulverulentum** Karst. Hedw. 1892, p. 295. 4055

*Hab.* ad ramos Cratægi coccineæ emortuos, Mustiala Fenniae. — Acervuli sparsi, pulvinati, atrii; conidia sphaeroidea, concatenata fuliginea, 6-7  $\mu$ . diam. v. cruciatim 1-3-septata, 10  $\mu$ . diam.

3. **Coniothecium Cydoniæ** Brun. Champ. Charente-Infér. 1892, p. 38. 4056  
— Acervulis minutis, atro-brunneis, sat confertis; conidiis brunneis, forma et magnitudine variantibus, nunc subglobulosis, sarciniformibus v. cruciatim septatis, 15  $\mu$ . diam., nunc cylindræis, extremitatibus rotundatis, 3-septatis, septis constrictis, 22 × 8, nunc oblongis, muriformibus, transverse 4-septatis, longitudinaliter irregulariterque 1-septatis, 25 × 18.

*Hab.* ad ramulos emortuos Cydoniæ vulgaris, Saintes Gallie.

4. **Coniothecium transversale** Sacc. Fl. myc. Lusit. p. 22. — Acervulis hinc inde gregariis, transverse oblongis, nigris 0,5-1 mm. 4057 long. 1  $\frac{1}{4}$  mm. cr., erumpentibus, cellulis conidiorum varie catenulatis v. sarciniformiter aggregatis, 1-2-guttatis, 5-7  $\mu$ . diam., olivaceo-fuligineis.

*Hab.* in caulibus emortuis Crithmi maritimi, Buarcos Lusitanie. — A *Con. asperulo* (in Fœniculo) mox acervulis transversis etc. recedit. Ob acervulos erumpentes ad Melanconieas vergit.

**SPEIRA** Corda — Syll. IV, p. 514, X, p. 671.

1. **Spera densa** Viala Monogr. pourr. vign. p. 101, t. VII, f. 41 et 4058  
Maladie de le vign. III éd. p. 322, fig. 123.

*Hab.* ad radices putres *Vitis viniferæ* in mycelio *Dematophoræ necatricis* in Gallia. — Sparsa, atra; conidii catenulæ senæ-octonæ, pedicello brevissimo communi suffultæ, cylindraceæ, atro-brunnæ, 9-12-septatæ, constrictæ,  $54 \approx 6$ ; conidium totum  $18 \mu$ . cr.

2. **Speira Dematophoræ** Viala Monogr. pourr. vign. p. 102, t. VII, f. 42 et Malad. de la vign. III éd. p. 322, fig. 124.

*Hab.* in mycelio *Dematophoræ necatricis* ad radices *Vitis* putres in Gallia. — Conferta, atra; conidii catenulæ sæpius ternæ, torulosæ, 4-5-septatæ, pedicello communi breviusculo sinuoso suffultæ,  $30 \approx 5.5$ .

*Subsect. 2. Macronemæ Sacc.*

**STEMPHYLIUM** Wallr. — Syll. IV, p. 519, X, p. 671.

1. **Stemphylium albo-atrum** Karst. Hedw. 1893, p. 60.

4060

*Hab.* in caulibus foliis tuberibusque *Solani tuberosi* in spiritu vini asservatis, Mustiala Fennicæ. — Cæspituli bombycini, albi, dein olivascentes, dein pulverulenti, hyphæ ramosissimæ, repentes, flexuosæ, septatæ, hyalino-melleæ, 3-8  $\mu$ . diam.; conidia 8-22  $\mu$ . diam. vel  $12-36 \approx 8-20$ , sphæroidea v. ellipsoidea, 1-5-septata, muriformia v. cruciatim divisa, asperula, subimpellucida.

2. **Stemphylium juniperinum** Karst. Hedw. 1892, p. 295.

4061

*Hab.* ad folia *Juniperi communis*, quæ enecat, pr. Mustiala Fennicæ. — Cæspituli hypophylli, effusi, atri; hyphæ filiformes, repentes, ramosæ, septatæ, fusco-hyalinæ, 2-3  $\mu$ . cr.; conidia ovalia, 4-6-septato-muriformia, dilute fuliginea,  $28-30 \approx 7-10$ , in ramulis brevissimis acrogena.

**MACROSPORIUM** Fr. — Syll. IV, p. 523, X, p. 672.

1. **Macrosporium Phaseoli** Fautr. Rev. Myc. 1893, p. 20.

4062

*Hab.* in maculis aridis foliorum *Phaseoli coccinei*, Côte-d'Or Gallicæ. — Conidia clavata, pallide olivacea,  $45 \approx 10-12$ , tri-septato-muralia, in caudam 1-septatam,  $15 \approx 4$ , deorsum attenuata.

2. **Macrosporium Nelumbii** E. et E. Proceed. Acad. N. Sc. Philad. 464.

4063

*Hab.* in foliis *Nelumbii lutei*, Kansas Amer. bor. (BARTHOLOMEW). — Maculæ brunneæ; hyphæ epiphyllæ, 3-4-septatæ,

- Hyphomycetæ, Dematiæ, Dictyosporæ, Macrosporium. 635
- 60-80  $\approx$  5-6; conidia clavata, 3-5-septata, pallide brunnea, 35-50  $\approx$  10-15, pedicello 12-15  $\mu$ . longo.
3. **Macrosporium Pelargonii** Ell. et Ev. Proc. Acad. Phil. 1894, p. 383. 4064  
*Hab.* in foliis Pelargonii spec. cultæ California (MAC CLATCHIE). — Maculæ orbiculares, e viridulo brunneæ, elevato-marginatæ; hyphæ amphigenæ; effusæ v. subfasciculatæ, flavo-brunneæ erectæ, 2-3-septatæ, 25-30  $\approx$  5-6; conidia obovata v. cuboidea, 3-septato-muriformia, 20-30  $\approx$  18-22, constricta.
4. **Macrosporium Vitis** Sorok. Paras. p. 31, t. IV, f. 51-52. 4065  
*Hab.* in pag. inf. foliorum Vitis viniferæ, in Caucaso. — Maculæ fuscellæ, hypophyllæ; hyphæ fasciculatæ, ex stomatibus exeuntes, subramosæ; conidia acrogena, oblonga, 4-5-septato-muriformia, constricta, 28-30  $\approx$  15, grisea.
5. **Macrosporium Seguerii** Allesch. Hedw. 1893, p. 75. — Hyphis 4066  
subfasciculatis, parum flexuosis, septatis, olivaceis, apice incrassatis et subhyalinis, 50-80  $\approx$  4-5; conidiis clavatis 3-10-septatis muriformibusque, vertice rotundatis, plerumque longe pedicellatis, flavo-brunneolis 30-70  $\approx$  10-16 (cum stipite).  
*Hab.* in foliis caulibusque emortuis Dianthi Seguerii, München Baviaræ.
6. **Macrosporium tabacinum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 383. 4067  
*Hab.* in foliis Nicotianæ Tabaci, Carolina sup. et Missouri Amer. bor. — Maculæ amphigenæ, demum albæ, elevato-marginatæ; hyphæ fasciculatæ, septatæ, geniculatæ, ferrugineo-brunneæ, 30-50  $\approx$  3-4; conidia obovato-clavata, stipitata, 3-9-septato-muriformia, 50-90  $\approx$  10-15.
7. **Macrosporium longipes** Ell. et Ev. Journ. Myc. VII, p. 134. 4068  
*Hab.* in foliis Nicotianæ Tabaci in Carolina sup. Amer. bor. — Maculæ amphigenæ, ferrugineo-brunneæ; hyphæ effusæ, amphigenæ, 40-70  $\approx$  3-4, erectæ, septatæ, torulosæ; conidia clavata, 40-50  $\approx$  15-20, sæpius 5-6-septato-muriformia, in pedicellum 35-50  $\mu$ . longum, torulosum infra attenuata.
8. **Macrosporium Daturæ** Fautr. Rev. Myc. 1894, p. 76. — Conidiis 4069  
fuligineis pallidis, longe pedicellatis 7-9-septatis, 150-190  $\approx$  18-20, pedicellis usque ad 100  $\mu$ . long.  
*Hab.* ad folia Daturæ Stramonii, Côte-d'Or in Gallia. — A *M. Brassicæ*, cui affine, colore et longitudine pedicellorum differt.
9. **Macrosporium Brassicæ** Berk. — Syll. IV, p. 526 — forma **Solani** 4070  
Faut. et Brun. Rev. Myc. 1894, p. 76. — Maculis irregularibus,

griseis; hyphis septatis, fuliginéis 100-140  $\approx$  8-10; conidiis concoloribus, 7-9-septatis, 110-116  $\mu$ . long.

*Hab.* ad folia viva Solani nigri, Côte-d'Or in Gallia.

10. **Macrosporium Crithmi** Wint. Contr. Mycol. Lusit. VI, p. 15. 4071

*Hab.* ad caules aridos Crithmi maritimi pr. Buarcos Lusitaniae (MOLLER). — Hyphæ fasciculatæ, erectæ, longæ, septatæ, fuscæ, 350  $\approx$  9; conidia ovato-subclavata 6-septata murali-divisa, 60  $\approx$  23, constricta, levia.

11. **Macrosporium truncatum** Lamb. et Fautr. Rev. Myc. 1895, p. 70, 4072  
t. 153, fig. 4.

*Hab.* in caulibus siccis Silenes nutantis, Côte-d'Or Galliae. — Hyphæ brunneæ, dimorphæ; conidia 50  $\approx$  23, inæqualiter pluri-septata.

12. **Macrosporium esculentum** E. et E. Proceed. Acad. N. Sc. Philad. 4073  
464.

*Hab.* in fructibus siccis Solani esculenti, Newfield N. J. Amer. bor. — Effusum, densum, olivaceo-brunneum; hyphæ fasciculatæ, 15-25  $\approx$  4, septatæ; conidia versiformia, globosa, oblongo-ellipsoidea v. obovata 10-22  $\approx$  7-12, pallide flavo-brunneæ, 3-septato-muriformia v. radiato-septata.

13. **Macrosporium florigenum** Ell. et Dear. New Spec. Canad. Fung. 4074  
in Canad. Rec. Sc. 1893, p. 272.

*Hab.* in floribus Asteris sinensis culti, London Canada Amer. bor. — Effusum, tenue, olivaceo-nigrum; hyphæ prostratæ nucleatæ, septatæ, rami fertiles erecti, 30-100  $\approx$  5, apice subhyalini; conidia acro-pleurogena, 3-5-septato-muriformia, 15-40  $\approx$  12-18.

14. **Macrosporium hybridum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 382. 4075

*Hab.* in cortice emortuo Sambuci glaucæ, Washington Amer. bor. (PIPER). — Effusum, nigrum; hyphæ cæspitosæ, olivaceo-brunneæ, 100-110  $\approx$  6-7, geniculatæ, torulosæ; conidia versiformia, 2-3-septata, 12-25  $\approx$  8-12 v. ellipsoidea 1-septata, 8-15  $\approx$  5-7, v. sarciniformia, 12-15  $\mu$ . diam., v. clavata 5-9-septato-muriformia, 56-70  $\approx$  12-15.

15. **Macrosporium iridicolum** Ell. et Ev. Proc. Acad. Phil. 1894, 4076  
p. 382.

*Hab.* in foliis Iridis missouriensis, Idaho Amer. bor. (HENDERSON). — Hyphæ breves, cæspitosæ, 12-15  $\approx$  5-6, continuæ, flaccidæ; conidia clavata, 5-10-septato-muriformia, 40-120  $\approx$  20-25, incluso pedicello obtuso.

16. **Macrosporium Junci** Lamb. et Fautr. Rev. Myc. 1894, p. 8. 407

*Hab.* in calamis Junci glauci, Côte-d'Or Galliæ. — Conidia 40-45  $\approx$  14-16, turbinato-clavata, deorsum tenuata, pallida, 1-septata, sursum 3-septato-muriformia, olivacea.

17. **Macrosporium olivaceum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 383. 407

*Hab.* parasitica in Sphærospide Asiminæ ad ramos Asiminæ trilobæ in Virginia occid. (NUTTALL). — Effusum, velutinum, olivaceum; hyphæ 80-100  $\times$  4-5, septatæ, erectæ, olivaceo-flavæ, subundulatæ; conidia obovata v. piriformia, 24-38  $\approx$  15-20, brunnea, 3-5-septato-muriformia.

**MYSTROSPORIUM** Corda — Syll. IV, p. 539, X, p. 678.

1. **Mystrosporium Stemphylium** Corda — Syll. IV, pag. 541. — var. 4079

**Brassicæ** Karst. Symb. Myc. Fenn. XXX, p. 67.

*Hab.* in caule putri Brassicæ Napi var. Napobrassicæ Mustiala Fennicæ. — Cæspites fusco-atrici; hyphæ 75-110  $\times$  6-8; conidia clavata v. oblonga, 3-5-septato-muriformia, 20-45  $\approx$  15-25, e flavido fuliginea.

**TRICHÆGUM** Corda — Syll. IV, p. 542, X, p. 678.

1. **Tichægum nodulosum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 385. 4080

*Hab.* in foliis emortuis Caricis Fraseri, Virginia occid. (NUTTALL). — Erumpens, cæspitosum, nigrum; hyphæ simplices, fasciculatæ, brunneæ, septatæ, 200-300  $\approx$  4; conidia ad basim hypharum orta, subglobosa v. obovata v. ellipsoidea, 8-10  $\times$  6-7, vel 10-25  $\mu$ . diam., flavido-hyalina. initio 1-septata, dein 4-6-septato-muriformia et opaca.

**SEPTOSPORIUM** Corda — Syll. IV, p. 543, X, p. 678.

1. **Septosporium Equiseti** Peck 45 Rep. p. 25. 4081

*Hab.* in ramulis Equiseti arvensis in Virginia occid. (MILL-SPAUGH). — Cæspituli minuti; hyphæ steriles repentes, longæ, septatæ; fertiles brevissimæ; conidia acrogena, ellipsoidea, 3-septato-muriformia, colorata, 25  $\approx$  12.

**ALTERNARIA** Nees — Syll. IV, p. 545, X, p. 679.

1. **Alternaria sirodesmioides** Togn. Seconda contr. Micol. tosc. p. 18. 4082

*Hab.* in trunco Arbuti Unedonis in Etruria. — Cæspituli castaneo-nigri, velutini; conidia 30-45  $\approx$  23-32, polymorpha, clathrato-septata, atra, asperula, pauca superimposita, isthmis breviss.

simis; hyphæ filiformes, prælongæ, ramosæ, septatæ, fuliginææ. — In *Alternariam* et *Sirodesmium* media species, sed habitus potius postremi.

2. *Alternaria brevicolla* Preuss sec. Rabenh. [in Herb. brux.], Sacc. 4083  
Fungi herb. Bruxell. n. 44. — Effusa v. hinc inde cæspitulosa, nigricans; hyphis erectis, cylindraceis, subfasciculatis, septatis, apice truncatis, fuliginæis, 45-50  $\approx$  5; conidiis obovatis, basi breviter acutatis, 3-4-septato-muriformibus, haud constrictis, atro-fuliginæis, 20  $\approx$  12.

*Hab.* in fragmentis ligneis, Hoyerswerda (PREUSS). — Conidia non videntur catenulata, hinc species verisimiliter *Macrosporium* spectat.

### FUMAGO Pers. — Syll. IV, p. 547.

1. *Fumago Lauri* Boy. et Jacz. Mat. mycol. Montpell. p. 48, fig. 12. 4084  
*Hab.* in foliis vivis *Lauri nobilis* pr. Montpellier. — Effusa, nigra, crustacea; conidia atra, varia, modo sarciniformia, modo stellato-3-radiata, radiis 2-septatis, acutis.

### Sect. 5. Helicosporæ.

#### HELICOMA Sacc. (nec Corda quod = *Helicosporium*) (Etym. *helix*).

— A gen. *Helicosporio* differt conidiis æque spiraliter convolutis, sed transverse atque longitrorsum septatis, coloratis.

1. *Helicoma larvale* Morgan N. Amer. Helicosporæ, p. 45, fig. 9. 4085  
*Hab.* in capsulis vetustis *Tecomæ* radicans, in America boreali. — Pallide griseo-brunneum; conidia brunneola, 35-40  $\approx$  8, semel convoluta, 7-septata, septo longitudinali continuo percursa.

#### HELICOSPORIUM Nees — Syll. IV, p. 557, X, p. 681.

1. *Helicosporium spectabile* Fautr. et Lamb. Rev. Myc. 1895, p. 70, 4086  
t. 153, fig. 3.  
*Hab.* in trunco *Ulm*i putrescentis, Côte-d'Or Galliæ. — Hyphæ simplices brunneæ, erectæ; conidia in spiras 1  $\frac{1}{2}$ -2, septatas convoluta, dilute colorata, 20  $\mu$ . diam. tot.
2. *Helicosporium ambiguum* (Morg.) Sacc. *Helicoma ambiguum* Morgan l. c. p. 48, fig. 15. 4087  
*Hab.* ad Sphæriaceas vetustas in ligno *Platan*i, in America boreali. — Flocculosum, roseum; conidia 350-400  $\approx$  6-7, hyalina,



pluriguttulata, 3-5 vicibus convoluta, spiris leviter ascendentibus.

3. *Helicosporium limpidum* (Morg.) Sacc. *Helicoma limpidum* Morgan 4088  
l. c. p. 47, fig. 13.

*Hab.* in ligno vetusto Ulmi, in America boreali. — Flocculosum, pallidum; conidia obsolete 15-20-septata, his vel ter convoluta 80-110  $\times$  4, hyalina.

4. *Helicosporium repens* (Morg.) Sacc. *Helicoma repens* Morgan l. c. 4089  
p. 47, fig. 12.

*Hab.* in cortice interiore Aceris saccharini, in America boreali. — Conidia 80-100  $\times$  4, vicibus 2  $\frac{1}{2}$  convoluta; hyalina multiguttulata.

5. *Helicosporium polysporum* (Morg.) Sacc. *Helicoma polysporum* 4090  
Morgan l. c. p. 46, fig. 11.

*Hab.* in cortice interiore Aceris saccharini, in America boreali. — Roseum, tenue; conidia 60-70  $\times$  5, vicibus 1  $\frac{1}{2}$  convoluta, hyalina 12-15-septata.

6. *Helicosporium ambiens* (Morg.) Sacc. *Helicoma ambiens* Morgan 4091  
l. c. p. 46, fig. 10.

*Hab.* in cortice interiore Aceris saccharini, in America boreali. — Brunneum, hirsutum; conidia 50-60  $\times$  6, vicibus 1  $\frac{1}{2}$  convoluta, 8-septata, hyalina.

7. *Helicosporium monilipes* (Ell. et Johns.) Sacc. *Helicoma monilipes* 4092  
Ell. et Johnson. Proc. Acad. Phil. 1894, p. 376.

*Hab.* in cortice Quercus, Michigan Amer. bor. (JOHNSON). — Cæspituli minuti, brunnei, punctiformes; hyphæ repentes obsoletæ, fertiles erectæ, subhyalinæ, subdichotome ramosæ, septatæ, toruloidæ, 40-50  $\times$  3-4; conidia acro-pleurogena, pallide brunnea, in spiras 1  $\frac{1}{2}$  cylindræas, 3-4  $\mu$ . cr., involuta, diam. tot. 12-15  $\mu$ .

## Sect. 6. Staurosporæ.

**CHEIROMYCES** B. et C. — Syll. IV, p. 554.

1. *Cheiromyces comatus* E. et E. New sp. North Am. Fung. in Proceed. Acad. S. N. Philad. 1893, p. 171.

*Hab.* in ramis decorticatis Azalæ, Newfield N. J. Amer. bor. — Gregarius in ligni superficie dealbata; acervuli minuti, nigri; conidia multipartita, divisiones subcentenæ, cylindrææ 35-40  $\times$  2-2.5, subhyalinæ, 5-7-septatæ, e stratu prolifero immediate oriundæ, glomerulum 15-20  $\mu$ . diam. formantes.

*Fam. 3. Stilbæ Fr.**Ser. 1. Hyalostilbæ Sacc**Sect. 1. Amerosporæ*

**STILBUM** Tode — Syll. IV, p. 564, X, p. 681.

1. **Stilbum albo-citrinum** E. et E. New West Amer. Fung. in Erythea 40  
p. 202.

*Hab.* in ramis emortuis, Washington Amer. bor. (PARKER). — Gregarium, 1 mm. altum; stipes albus e glabro pruinosis; capitulum subglobosum, pallide aurantium; conidia anguste ellipsoidea,  $3 \times 1,3$ .

2. **Stilbum javanicum** Henn. Fung. Warburg. p. 227. 40

*Hab.* in ramis emortuis in horto bot. Buitenzorg Javæ (WARBURG). — Stipites gregarii, erecti, 1 mm. alt., rubri; capitula globoso-ovoidea, flava; conidia oblonga, hyalina, levia,  $4-5 \times 1,5-2$ .

3. **Stilbum madidum** Peck 46 Rep. p. 35. 40

*Hab.* in trunco cæso madido Betulæ luteæ, Lake Pleasant Amer. bor. — Stipites copiosi, 500-700  $\mu$ . alt., albidus, glabri; capitula subglobosa, pellucide alba; conidia oblonga,  $12-15 \times 4$ .

4. **Stilbum Capsici** Pat. Bull. Soc. Myc. 1893, p. 163. 40

*Hab.* in caulibus siccis Capsici pubescentis, Cotocollao Æquatoris. — Stipes erectus, albidus, cylindraceus,  $500 \times 60$ , glaber; capitulum lenticulare v. globosum, ochraceo-rubrum, 160  $\mu$ . diam. conidia  $20-22 \times 6$ , ellipsoidea, hyalina; basidia  $40-50 \times 2-3$ .

5. **Stilbum proliferum** Em. March. Bull. Soc. belg. microsc. 1894, 40  
p. 267, t. VII, f. 3.

*Hab.* in culmo putrescenti Sacchari officinarum, Congo inf. (E. LAURENT). — Affine *S. fasciculato*, sed  $600-800 \times 35-60$ , rufidulum, capitulis globosis, coccineis,  $120-250 \mu$ . d.; conidia ellipsoidea,  $5-7 \times 2,5-3,5$ , hyalina.

- CLADOSTERIGMA** Pat. Bull. Soc. Myc. 1892, p. 138. (Ety. *clados* ramus et *sterigma*). — Stromata clavariæformia, pallida, gelatinosa, biophila, undique basidiis clavatis 1-sterigmicis vestita. Sterigmata breviter apice dendroideo-ramosa. Conidia hyalina, continua. **Cladosterigma fusisporum** Pat. l. c. t. III, f. 3. 40

*Hab.* in utraque pagina foliorum viventium Myrtaceæ cujusdam, Pallatanga Æquatoris (LAGERHEIM). — Cæpitosum, cylin-

draceum, album, simplex v. furcatum v. varie ramosum, 0,5-1 mm. alt. e sclerotio oriundum; basidia 10-13  $\times$  6; sterigmata 4-6  $\mu$ . alt., denticulato-ramosa; conidia fusioidea, acuta, guttulata, 16-20  $\approx$  5-6.

**ACTINICEPS** B. et Br. — Syll. IV, p. 579.

1. *Actiniceps Besseyi* Mac Millan Cfr. Bot. Jahresb. 1890, p. 223. 4100

*Hab.* in epicarpio Citri Aurantii in Amer. bor. — Stipes cærulescens, rarius flavescens, 700  $\mu$ . altus; conidia muco obducta, ellipsoidea, 4-5  $\approx$  2-2,5; hyphæ fertiles repetito-ramosæ.

**PILACRE** Fr. — Syll. IV, p. 579. X, p. 686.

1. *Pilacre gracillipes* Ell. et Ev. Proc. Acad. Phil. 1894, p. 386. 4101

*Hab.* in ligno putri, Virginia occid. (NUTTALL). — Stipites albo-pruinosi, 3  $\approx$  0,3 mm.; capitula hemisphærica, olivacea 1 mm. diam.; hyphæ fertiles ramosæ, 2-2,5; conidia pleurogena, subglobosa, flavido-brunnea; 4-5,5  $\mu$ . diam.

**COREMIUM** Link. — Syll. IV. p. 581, X, p. 687.

1. *Coremium incanum* Karst. Hedw. 1892, p. 295. 4102

*Hab.* in foliis siccis Graminum et larvis Chæreæ graminis, Mustiala Fennicæ. — Stromata erecta, capitata; stipites filiformes, glabri, pallidi, 0,5-0,8 mm. long.; capitula globoso-ovoidea, incana, 100-200  $\mu$ . diam.; conidia longe catenata, ovoidea, modo 5-6  $\approx$  2,5-3,5, modo 9-12  $\approx$  6-7.

**ISARIA** Pers. — Syll. IV, p. 584, X, p. 687.

1. *Isaria pistillariæformis* Pat. Bull. Soc. Myc. 1893, p. 163. 4103

*Hab.* in microlepidoptero quodam, Puente de Chimbo Æ-quatorix. — Stromata 0,5 mm. alta, flavida, erecta, sursum incrassata; conidia hyalina, oblonga, 3  $\times$  1, in apice hypharum acrogena.

2. *Isaria dubia* Delacr. Bull. Soc. Myc. 1893, p. 264, T. XIV, f. 1. 4104

*Hab.* in larva Hepiali lupulini pr. Rouen Gallix (NOEL). Stromata filamentosa, alba denique mellea; hyphæ fertiles septatæ 3-4  $\mu$ . cr., guttulatæ; basidia ovato-rotundata, sterigmata 1-4 acicularia, 2,5  $\mu$ . longa gerentia; conidia hyalina, fusioidea, 5-6  $\approx$  1-1,5, acrogena.

3. *Isaria aspergilliformis* Rostr. in Bot. Centralbl. 1894, vol. LVII, 4105 p. 185.

*Hab.* in Araneis minutis in Dania. — Stromata ex hyphis 100-150  $\times$  3-5 coalescentibus formata; sporophora peripherica, 130  $\mu$ .

long., 1-2-septata, apice vesiculoso-inflata, recto angulo divergentia, basidia e vesicula oriunda et sterigmatibus apice coronata; conidia in sterigmatibus catenulatim nascentia, globosa, 2-2,5  $\mu$ . diam. «An *Gibellulæ* spec.?».

4. *Isaria acaricida* Pat. Bull. Soc. Myc. 1893, p. 163.

4106

*Hab.* in *Acaris* in pag. inf. foliorum *Chusqueæ*, San Jorge *Æquatoris*. — Stipites prostrati v. recti, 0,5-1 mm. alt., 30  $\mu$ . cr., olivacei; basidia subulata, septata, denticulata; conidia hyalina ovoidea, 3  $\mu$ . longa.

5. *Isaria Oncopteræ* Mac Alpine The entomog. fungi of Victoria 4107  
Melb. 1894, p. 165.

*Hab.* in larvis emortuis *Oncopteræ intricatæ*, Victoria *Australiæ*. — Stipes ramosus, velutinus, ochraceus, ramis apice fertilibus; conidia ovato-fusiformia, hyalina 12  $\approx$  6, patentia.

6. *Isaria Barberi* Giard Compt. rend. Soc. biol. Paris 1894, 22 dec. 4108

*Hab.* parasitice in *Diatræa saccharali* ad *Saccharum* in *Antillis*. — *Diagnosis nunc mihi desideratur.*

7. *Isaria tenuis* Heim in Bull. Soc. Myc. 1893, p. 114.

4109

*Hab.* in pag. inf. foliorum *Coryli* et *Ulmi* in insectis parasitica in *Gallia*. — Stromata albida, conica; basidia 6  $\approx$  3, sterigmatibus ampulliformibus ubique tecta; conidia ovoidea 2-2,8  $\approx$  1. Comparanda cum gen. *Gibellula* Cav. (= *Corethropsis* Sacc.).

8. *Isaria virgininiensis* E. et E. Proceed. Acad. N. Sc. Philad. 465. 4110

*Hab.* in stromate juniore *Hypoxyli rubiginosi*, Virginia occid. (NUTTALL). — Subclavata, 1,5-2 mm. alta, flavido-alba; hyphæ dendroideo-ramosæ, 40-45  $\approx$  2,5, apicibus denticulatis; conidia ellipsoideo-ovoidea, hyalina, 3,5  $\approx$  2,5.

9. *Isaria murina* Oud. Contr. Myc. Pays-bas XIV, p. 62, t. I, B.

4111

*Hab.* in stercore murino, Amsterdam *Nederlandiæ*. — Albissima, cæspitosa, 5-8 mm. alta, simplex, subulata, superficiem versus in hyphas septatas tenues dichotome divisas soluta; conidia ellipsoidea, 4-4,5-2-2,5, hyalina.

10. *Isaria arborea* Pat. Champ. Asiat. p. 3.

4112

*Hab.* ad terram humosam *Tonkin* (BON). — Elata, 12 cm. alta, stipes simplex, corneus, ater, 3 mm. cr., sursum ramosus, ramis ramulisque cinereis, ultimis acutis fertilibus 3-4  $\mu$ . cr., fuliginis, septatis; capitula elongata, 3-4 cm. tat.; conidia subglobosa, 3-5  $\mu$ . diam., hyalina; basidia monospora, 12  $\approx$  3-5.

11. *Isaria arbuscula* Har. Bull. Soc. Myc. 1892, p. 67.

4113

*Hab.* in Mexico ad terram (?). — Cæspitosa; stipites ochracei

5-6 cm. alt.; iterato ramosi; capitula tomentosa, cristato-coralloidea; hyphæ 4-6  $\mu$ . cr. apice obtusæ; basidia rotundata in sterigma subulatum monosporum abeuntia, 8-10  $\approx$  3-4 (cum sterigmate); conidia ellipsoidea, 7-10  $\approx$  2-3, non catenata;

12. *Isaria dedawensis* P. Henn. Beitr. Pilz. Samland. p. 90.

4114

*Hab.* in ramis dejectis putridis in silvis Samland Borussiae. — Flavo-carnea, fasciato-compressa, erecta, ceratioidea; stipites ramosi, 1,5-2 mm. alt.; conidia globulosa v. ellipsoidea, hyalina, intus granulosa, 9-13  $\approx$  8-11.

**GIBELLULA** Cavar. Mycol. Lomb. p. 35 (Etym. ab eximio botanico prof. Jos. GIBELLI). — Stroma verticale, conico-cylindraceum; sursum clavulatum, mucedineum, fere omnino capitulis conidiophoris stipitatis, pleurogene insertis conspersum; fructificatio in singulis capitulis instar *Sterigmatocystidis*.

1. *Gibellula pulcra* Cavar. l. c. *Corethropsis pulcra* Sacc. in Michel. 4115 I, p. 83; Fung. ital. tab. 46; Syll. IV, p. 62.

Ser. 2. Phæostilbæ Sacc.

Sect. 1. Amerosporæ

**SACCARDÆA** Cavar. Micol. Lomb. p. 34. — Stroma verticale, conico-teres, atrum, apice capitatum, setigerum; conidia oblonga, continua, fusca, in ramulis inter setulas oriundis acrogena.

1. *Saccardæa echinocephala* Cavar. l. c. tab. XXXVI, fig. 1-5. — 4116 Stomatibus sparsis, rectis v. tortuosis; stipite coriaceo, basi inflato, sursum tereti, nigro, ex hyphis olivaceis, subtilibus, dense coalitis efformato, 100  $\approx$  35-40; capitulo sphærico v. globoso, nutante, atro, undique setulis mollibus, hyalino-chlorinis, pluriguttulatis ornato; conidiis ex apice ramulorum inter setulas orientibus, ellipticis, utrinque obtusiusculis, continuis, viridulis 13-15  $\approx$  3.

*Hab.* in foliis siccis *Acori Calami*, in Horto botanico, Pavia Ital. bor.

**SPOROCYBE** Fr. em. — Syll. IV, p. 604, X, p. 692.

1. *Sporocybe geophila* (Peck) Sacc. — *Periconia geophila* Peck Bull. 4117 Torr. Cl. 1884, p. 50.

*Hab.* ad terram, Washington Terr. Amer. bor. (BRANDEGEE). — Stipes compositus, levis, fumose brunneus, 4-5 mm. alt.; capitulum

644. Hyphomyceteæ, Stilbæ, Phragmosporæ, Dendrographium.  
hemisphæricum, pulverulentum, albido-flavidum; conidia subglobosa, hyalina, 5  $\mu$ , diam.

**GRAPHIUM** Corda — Syll. IV, p. 609, X, p. 693.

1. **Graphium subtile** Berl. Bull. Soc. myc. 1892, p. 111, t. X, f. 21-24. 4118

*Hab.* in caulibus ramulisque putrescentibus, Avellino Ital. merid. — Stipites sparsi, olivacei, fusci, setiformes, 600-700  $\approx$  18-30; capitula globosa, gelatinosa, pallidiora; conidia ovoidea, 6  $\approx$  3,5-4, basi apiculata, hyalina.

2. **Graphium nodulosum** Em. March. Bull. Soc. belg. micr. 1894, p. 266, 4119  
t. VII, f. 5.

*Hab.* in culmis Sacchari officinarum languidis, socia *Nectria Laurentiana*, Congo inf. (E. LAURENT). — Maxima generis species, 1-1,5 cm. alta; conidia ovoidea, 3,5-4,5  $\approx$  2-2,5, hyalina.

**STYSANUS** Corda — Syll. IV, p. 690, X, p. 696.

1. **Stysanus globosus** Pegl. Contr. micol. Adell. p. 38. 4120

*Hab.* in ramis Piri putrescentibus, Avellino Italiæ austr. — Stipites subconici, atro-brunnei, 0,5-1 mm. alt., 10-12  $\mu$ . cr.; capitula subglobosa raro oblonga, hyalina; conidia ovoidea, catenulata, 6  $\approx$  4, atro-brunnea.

## Sect. 2. Phragmosporæ.

**PODOSPORIELLA** Ell. et Ev., Proc. Acad. Phil. 1894, p. 385 (Etym. a *Podosporio*, cui analogum genus). — Stipes cellulosus (nec fibrosus), breve cylindraceus, molliusculus, ater, ubique hyphas breves simplices gerens. Conidia acrogena oblongo-cylindracea, brunnea, 2-pluri-septata.

1. **Podosporiella humilis** Ell. et Ev. Proc. Acad. Phil. 1894, p. 385. 4121

*Hab.* in foliis Garryæ Veitchii in California (MAC CLATCHE). — Nigricans, 1 mm. alt., 0,5 mm. cr.; hyphæ conidiophoræ 15-20  $\approx$  4-5; conidia 2-4-septata, 15-27  $\approx$  6-7, pallide brunnea.

**DENDROGRAPHIUM** Masee Grev. XXI, p. 5 (Etym. *dendron* arbor et *Graphium*). — Stipes erectus, fasciculato-compositus, ater, sursum conidia elongata, pluriseptata, concatenata, fusca gerens. — Est quasi *Podosporium* conidiis catenulatis.

1. **Dendrographium atrum** Masee Grev. l. c. t. 182, f. 6.

*Hab.* in ramulis, Amazon Valley Amer. austr. — Gregarium, 4122

Hyphomycotæ, Tubulariæ, Amerosporæ, Tubularia. 645  
nigrum, 1-1,5 mm. alt.; conidia 7-septata, 40-50  $\times$  5-6, pellucide  
brunnea.

**ISARIOPSIS** Fres. — Syll. IV, p. 630, X, p. 700.

1. *Isariopsis ceratella* Pat. Bull. Sac. Myc. 1893, p. 163. 4123

*Hab.* in ramulis putridis dejectis, Rio Machangara Æquatoria.  
— Erecta, albo-pruinosa, cylindræa, 0,5 mm. alta, 0,3 mm. cr.,  
fibroso-gelatinosa; basidia apice denticulata, subcylindrica; conidia  
ovoidea, hyalina, 1-septata, 10  $\times$  3, pedicellata,

*Fam.* 4. Tubulariæ Ehrenb. em.

*Ser.* 1. Tubulariæ mucedineæ Sacc.

*Sect.* 1. Amerosporæ

**TUBERCULARIA** Tode — Syll. IV, p. 638, X, p. 700.

1. *Tubularia hamata* Ell. et Ev. Proc. Acad. Phil. 1894, p. 386. 4124

*Hab.* in ramis emortuis *Celtidis occidentalis*, Nuttall-  
burg Virginie occid. (NUTTALL). — Depresso-hemisphærica, umbo-  
nata, mox nigricans, 0,5-1,5 mm. diam., conidia oblonga, curvula,  
hyalina, 5-8  $\times$  1,5  $\times$  2; sporophora 30-40  $\mu$ . long. simplicia, apice  
incurvo-hamata.

2. *Tubularia Schweinfurthii* Bres. in Henn. F. Æthiop. 1, p. 121. 4125

*Hab.* in cortice Juniperi, Valle Marfair Erythrææ (SCHWEIN-  
FURTH). — Sporodochia gregaria v. confluentia, cinnabarina, glo-  
boso-depressa v. elongata, 1-3 mm. longa; sporophora fasciculata  
ramosa, septata, 3-3,5  $\mu$ . lat., hyalina; conidia elongato-elliptica,  
biguttata, 9-15  $\times$  6-7.

2. *Tubularia radiculicola* Delacr. Bull. Soc. Myc. 1893, pag. 186, 4126  
T. XI, f. 6.

*Hab.* in radicibus emortuis *Castanæ vulgaris* terra uda  
obductis in laboratorio, Parisiis. — Sporodochia irregularia, ochra-  
cea, 1-2 mm. lata, sparsa; sporophora simplicia, continua. 30-50  $\times$  2,  
hyalina; conidia numerosissima 3  $\times$  0,7-1.

3. *Tubularia pruinosa* Fautr. et Lambotte Rev. Myc. 1893, p. 119. 4127

*Hab.* in culmis vetustis *Sorghii vulgaris*, Côte-d'Or Gal-  
liæ. — Sporodochia superficialia, copiosa, straminea, pruina albidâ  
conspersa; conidia hyalina, continua, oblonga utrinque rotundata,  
6-8  $\times$  3-4.

**DENDRODOCHIUM** Bon. — Syll. IV, p. 650, X, p. 706.

1. **Dendrodochium pallidum** Peck Bull. Torr. Cl. 1884, p. 50.

4128

*Hab.* in ligno putri, Canada (Macoun). — Sporodochia minuta, orbiculari-depressa, pallida; sporophora hyalina sursum ramosa; conidia tereti-oblonga, recta v. curvula, obtusa, hyalina, 20-40 = 10-12.

**ENDOCONIDIUM** Prill. et Delacr. — Syll. X, p. 708.

1. **Endoconidium luteolum** Delacr. Bull. Soc. Myc. 1893, pag. 184, 4129 T. XI, f. 1.

*Hab.* in tuberibus coctis Solani tuberosi in laboratoris agronomicis Parisiis. — Mycelium effusum, velutinum, sulphureo-luteolum; hyphæ ramosæ, septatæ, hyalinæ; conidia globulosa ex hyalino flavidula, 3,5-5  $\mu$ . diam., longe catenulata, in interiore hyphæ fertilis enascentia.

2. **Endoconidium fragrans** Delacr. Bull. Soc. Myc. 1893, pag. 184, 4130 T. XI, f. 2.

*Hab.* in succo fermentescenti Ananassæ in laboratorio Instituti agronomici Parisiis. — Mycelium albidum, effusum; hyphæ hyalinæ, subramosæ, septatæ, 3-5  $\mu$ . cr.; conidia cylindracea, utrinque obtusula, 10-16 = 3-5, hyalina, in interiore hypharum fertilium enascentia et breviter catenulata.

**TUBERCULINA** Sacc. — Syll. IV, p. 653, X, p. 709.

1. **Tuberculina solanicola** Ell. Desc. new Sp. Fung. Journ. Mycol. 4131 1893, VII, p. 278.

*Hab.* in fructibus Solani Melongenæ, Florida Amer. bor. — Sporodochia tuberculiformia, 0,3 mm. diam., e pallido fusca, in areis exaridis sita; basidia 12-15 = 2-2,5, sursum curvula hyalina; conidia ellipsoidea, 2-nucleata, hyalina, 5-7 = 2,5-3.

**ILLOSPORIUM** Mart. — Syll. IV, p. 656, X, p. 710.

1. **Illosporium cæspitosum** Ell. et Ev. Proc. Acad. Phil. 1894, p. 385. 4132

*Hab.* in ligno putri, Nuttallburg, Virginia occid. — Sporodochia globosa, 100-110  $\mu$ . diam. in cæspitulum, 1 mm. diam. aggregata; hyphæ 6-8  $\mu$ . cr., ramosæ, tortuosæ; conidia globosa v. ovoidea 6-12  $\mu$ . diam. «Color non indicatus».

2. **Illosporium minimum** E. et E. Proceed. Acad. N. Sc. Philad. p. 465 4133 (1893).

*Hab.* in ligno putrescenti, in Amer. bor. (ATKINSON). — Sporo-



dochia minuta, 76-85  $\mu$ . diam., brevissime stipitata v. subsessilia, ex albo flavida; hyphæ septatæ, 2-3-dichotomæ; articuli biconici 5-6  $\mu$ . diam.

3. *Illosporium?* *album* (Oth) Sacc., *Epicoccum album* Oth Bern. 4134  
Mittheil. 1868, p. 63.

*Hab.* in trunco decorticato udo Abietis pr. Bern Helvetiæ.  
— Sporodochia minuta, albida, grumoso-ceracea, conidiis stipatis obsita; conidia globosa v. piriformia v. elongata, continua v. 1-septata v. pluriseptata et torulosa, articulo terminali majore, 9-9,5  $\mu$ . cr.

4. *Illosporium album* Ell. et Ev. Proc. Acad. Phil. 1893, p. 385. 4135

*Hab.* in cortice Cupressi, Louisiana Amer. bor. (LANGLOIS).  
— Sporodochia gregaria, lactea, ovoidea, 140-160  $\approx$  100; hyphæ curvulæ, deorsum in massam cellularem abeuntes; conidia peripherica, subglobosa, 8-10  $\mu$ . diam.

5. *Illosporium ilicinum* Pegl. Note Patol. veg. p. 7, Contr. Mic. Avell. 4136  
pag. 38.

*Hab.* in foliis vivis Quercus Ilicis prope Portici et Avellino Ital. inf. — Maculæ sordide brunneæ, amphigenæ; sporodochia alba, gregaria, epiphylla, 100-120  $\approx$  40-50; conidia catenulata, distincte et inæqualiter constricto-1-septata, 8-10  $\approx$  2-4, hyalina, episporio crasso.

**ÆGERITA** Pers. — Syll. IV, p. 661, X, p. 711.

1. *Ægerita caulicola* Karst. Hedw. 1892, p. 299. 4137

*Hab.* in caulibus putridis herbarum majorum, Mustiala Fenniciæ.  
— Sporodochia globulosa, alba, 100-200  $\mu$ . diam., hyphæ ramosæ; flexuosæ, toruloso-moniliformes, fasciculatæ; conidia acrogena, sphæroidea, 12-16  $\mu$ . diam.

**HYMENULA** Fr. — Syll. IV, p. 667, X, p. 712.

1. *Hymenula Eucalypti* C. et Massee Grev. XXI, p. 39. 4138

*Hab.* in foliis Eucalypti Goulburn River Australiæ (MARTIN).  
— Amphigena, erumpens, discoidea, 0,5 mm. lat., brunneola; sporophora simplicia, crassiuscula; conidia acrogena, subglobosa, hyalina, 6  $\approx$  5.

2. *Hymenula fruticicola* Pound et Clem. Bot. Surv. Nebr., Rep. III, 4139  
1893, p. 11.

*Hab.* in fructibus Salicis longifoliæ, Stevens Creek Nebraska Amer. bor. — Sporodochia superficialia, subellipsoidea, pal-

648 Hyphomycetæ, Tuberculariæ, Amerosporæ, Epidochiopsis.  
lide rubella, farinoso-gelatinosa, seriata; sporophora subsimplicia,  
30-40  $\approx$  4; conidia ellipsoidea v. sphærico-ovoidea, 6-8  $\approx$  5-6,  
hyalina.

3. *Hymenula Musæ* Pat. Bull. Soc. Myc. 1892, p. 138.

4140

*Hab.* in fructibus Musæ, Quito Æquatoriæ. — Sporodochia subgelatinosa, lenticularia, rosea, calva, 0,3-0,5 mm. diam.; hyphæ erectæ, stipatæ, subcylindricæ, 15-20  $\approx$  3-4; conidia ellipsoidea, hyalina, 10-15  $\approx$  4-5, solitarie acrogena.

4. *Hymenula cerealis* Ell. et Ev. Proc. Acad. Phil. 1894, p. 386.

4141

*Hab.* in culmis Tritici, Nuttallburg Virginiae occid. (NUTTALL). — Sporodochia gelatinosa, orbicularia, flavido-succinea, demum obscuriora, 0,5-0,7 mm. diam.; sporophora 25-30  $\approx$  1, sæpius ramosa, ramis erectis; conidia oblonga, 3-4  $\approx$  1-1,3, hyalina.

5. *Hymenula rosea* Lamb. et Fautr. Rev. mycol. 1894, p. 161.

4142

*Hab.* in foliis Zeæ Maydis var. Caraguæ, Côte-d'Or Galliæ. — Sporodochia rosea, effusa, amorphæ, seriata; hyphæ crassæ, septatæ; sporophora simplicia, conid' o paullo majora; conidia ovoidea, irregularia, hyalina, guttata, 6-8  $\approx$  3-4.

**SPHÆROCOLLA** Karst. Hedw. 1892, p. 294 (Etym. *sphæra* et *colla*).

— Sporodochia disciformia v. effusa, mollia, læte colorata; conidia in hyphis (sporophoris) ramosis, filiformibus acrogena, sphæroidea, catenulatim digesta, levia, hyalina.

1. *Sphærocolla aurantiaca* Karst l. c.

4143

*Hab.* in cortice crassiore Betulæ adhuc vivæ ad Mustiala Fennicæ. — Sporodochia aurantia, effusa, usque 10 cm. lata; hyphæ 3-9  $\mu$ . cr.; conidia 8-9  $\mu$ . diam.

**CYLINDROCOLLA** Bon. — Syll. IV, p. 673, X p. 715.

1. *Cylindrocolla acuum* E. et E. Proceed. Acad. N. Sc. Philad. p. 4144 465 (1893).

*Hab.* in foliis dejectis Pini rigidæ, Newfield N. J. Amer. bor. — Sporodochia superficialia, suborbicularia, depressa, pallide carnea, 0,3-1 mm. diam., ambitu pallidiora; sporophora ramosa, mox secedentia in conidia cylindrica, catenulata, subtruncata, 3-4-nucleata, hyalina, 12-15  $\approx$  2-2,5.

**EPIDOCHIOPSIS** Karst. Hedw. 1892 p. 294. (Etym. *Epidochium*, cujus analogæ). — Sporodochia gelatinoso-coriacea, subdiscoidea, nudata, læticoloria. Hyphæ tenerrimæ. Conidia sphæroidea, mucoso-glomerata sphæroidea, hyalina; glomeruli rotundati, hyphis adhærentes.

1. **Epidochiopsis atro-virens** Karst. l. c. *Epidochium atro virens* 4145  
Karst. Symb. myc. XVIII, p. 101, nec Fr.

*Hab.* in ligno vetusto Betulæ, Mustiala Fennicæ. — Sporodochia atroviridia, 1 mm. diam.; conidia in quoque glomerulo circiter vicena; hyphæ, continuæ, hyalinæ, 2-3  $\mu$ . cr.

**HYPHOSTEREUM** Pat. Bull. Soc. myc. 1892, p. 139. (Etym. *hypha* et *Stereum*). — Sporodochia cupulata, coriacea, læte colorata; hymenio definite infero. Conidia ovoidea, hyalina, e basidiis bacillaribus oriunda. — *Patellinæ* certe affine.

1. **Hyphostereum pendulum** Pat. l. c. t. VI, f. 6. 4146

*Hab.* in ligno emortuo, Guapolo Æquatoricæ (LAGERHEIM). — Sporodochia subsessilia, pendula, 3,5 mm. lat., albo-rosea, villosa, hymenio saturate incarnato, concavo; basidia 30  $\approx$  3; conidia ovato-fusoidea, 8-10  $\approx$  2, 1-2-guttata, hyalina.

**VOLUTELLA** Tode. — Syll. IV, p. 682, X. p. 718.

1. **Volutella Bartholomæi** E. et E. New Sp. North Am. Fung. in Pro- 4147  
ceed. Acad. S. N. Philad. 1893 p. 171.

*Hab.* in foliis Sporoboli asperi, Kansas Amer. bor. (BARTHOLOMEW). — Sporodochia olivaceo-nigricantia, 0,3-0,5 mm. diam., subhemisphærica; setæ periphericæ, paucae (3-6) adscendentes, olivaceæ continuæ, 4-5  $\mu$ . cr., apice obtusæ, subhyalinæ; conidia copiosa, tereti-oblonga, 9-11  $\approx$  2,5 in strato proligerò sessilia, olivacea.

2. **Volutella stellata** Peck 47 Rep. p. 22. 4148

*Hab.* in ligno valde putri Castaneæ, Flatbush Am. bor. (REV. ZABRISKIE). — Sporodochia minuta, subinde confluentia, setæ sæpius stellato-ramosæ, brunneæ; conidia glabra v. ellipsoidea, 4-5  $\mu$ . longa. Affinis *V. ochraceæ*.

## Sect. 2. Phragmosporæ.

**FUSARIUM** Link. — Syll. IV, p. 694, X, p. 721.

1. **Fusarium rhizogenum** Pound. et Clem. Bot. Surv. Nebr. Rep. III, 4149  
1893, 12.

*Hab.* in radicibus Piri Mali plantularum, Lincoln, Nebraska Amer. bor. — Sporodochia superficialia 1-2 mm. lat., densa, convexa, ex albo flava; hyphæ dense intertextæ, adscendentes, septatæ, subramosæ; conidia oblonga, utrinque rotundata, 1-septata, 70  $\approx$  4 (« an potius 10  $\approx$  4? »), in ramulis acrogena.

2. *Fusarium Cydoniæ* Allesch. Verz. Süd.-Bay. Pilze III, p. 130 (1891). 4150

*Hab.* in ramulis emortuis *Cydoniæ vulgaris*, München Bavarïæ. Habitus *F. sarcocroï* conidia fuscidea, 3-5-septata, utrinque abrupte curvata, acutiuscula, 40-50  $\approx$  3-4, hyalina.

3. *Fusarium Mali* Allesch. l. c. 4151

*Hab.* in ramulis exsiccatis Piri Mali, München Bavarïæ. — Habitus præcedentis; conidia fusoidea, curvata v. vermicularia, sæpius 3-septata, leniter constricta, obtusula, 30-45  $\approx$  3-4, hyalina.

4. *Fusarium Rollandianum* Sacc. *Fusarium Cydoniæ* Roum. et Fautr. 4152  
Rev. Myc. 1892, p. 170, nec Allesch.

*Hab.* in fructibus *Cydoniæ vulgaris* in Gallia (L. ROLLAND). — Sporodochia in crustam confluentia, carnea; conidia subfalcata, apice acuta, deorsum obtusa, plerumque 3-septata, rarius 4-5-septata, hyalina, 23-27  $\approx$  2.

5. *Fusarium Cerasi* Roll. & Ferry Rev. Mycol. 1892, p. 170. 4153

*Hab.* in ramis emortuis *Cerasi*, Saint-Dié in Vogesis (FERRY). — Sporodochia compacta, albida, erumpentia, teretiuscula; hyphæ stipatæ, ramosæ, 40-50  $\approx$  3-4; conidia 40-50  $\approx$  2-3, hyalina, guttata, tandem probabiliter 3-septata. «An *Micropera*?».

6. *Fusarium Clematidis* Roil. et Fautr. Rev. Mycol. 1894, p. 72, tab. 4154

CLXI, f. 2. — Acervulis roseis, initio albis, sparsis v. confluentibus, stromate atro-brunneo, in cirros cylindraceos v. globulosos sæpe erumpentibus; conidiis hyalinis, oblongo-fusiformibus, leviter curvatis 80-100  $\approx$  8, 7-10-septatis; basidiis brevibus interdum ramosis.

*Hab.* ad caules putridos *Clematis Vitalbæ*, Côte-d'Or Gallicæ. — Magnitudine conidiorum cum *F. longisporo* et *F. giganti* comparandum.

7. *Fusarium Fraxini* Allesch. Verz. Süd.-Bayer Pilze III, p. 130. 4155

*Hab.* in ramulis siccis *Fraxini excelsioris* pr. München Bavarïæ. — Sporodochia tuberculariæformia, albo-fusca; conidia falcata, acutula, nubilosa, continua (semper?), subhyalina, 30-40  $\approx$  4-5.

8. *Fusarium glandicolum* Allesch. l. c. 4156

*Hab.* in glandibus putridis *Quercus pedunculatæ* pr. München Bavarïæ. — Sporodochia minuta, gregaria, tecta dein erumpentia, roseo-carnea; conidia fusoidea curva, v. recta, acutula, obscure 3-septata, hyalina, 25-40  $\approx$  2,5-3.

9. *Fusarium* (Fusamen) *amentorum* De Lacr. II suppl. Fl. M. et L. 4157  
1854, et in Desm. Pl. crypt. exs. n. 657 (in Herb. Brux.), *Fusa-*

Hyphomycetæ, Tuberculariæ; Phragmosporæ; Fusarium. 651  
*rium deformans* Schröt. (1883), Sacc. Syll. IV, p. 71 (ex Madera  
 et Silesia).

*Hab.* in amentis fœmineis Salicis cinereæ et capræ, St.  
 Romain-sur-Vienne Galliæ. — Hyphæ (a Schröt. non descriptæ)  
 subfasciculatæ, cylindraceæ, medio sæpe inflatulæ, continuæ, hya-  
 linæ, sursum grosse inæqualiter tuberculatæ, subinde breviter fur-  
 cata; conidia breve fusoidea, recta v. curvula, 15-17  $\approx$  5-6, conti-  
 nua, hyalina.

10. *Fusarium luteum* Clem. Bot. Surv. Nebr. Rep. III, 1893, 12. 4158

*Hab.* in ligno putri, Lincoln Nebraska Amer. bor. — Innato-  
 erumpens, duriusculum, aureo-flavum; hyphæ breves simplices,  
 continuæ; conidia falcata, curva, utrinque acuta, constanter 3-se-  
 ptata, hyalina, 32-39  $\approx$  4-5.

11. *Fusarium subviolaceum* Roum. & Fautr. Rev. Myc. 1892, p. 106. 4159

*Hab.* in caulibus siccis Asparagi officinalis, Noidan Côte-  
 d'Or Galliæ. — Sporodochia effusa, continua, violacea; sporophora  
 longa, ramosa; conidia acro-pleurogena, fusoidea, recta, acuta,  
 3-5-septata, 30-50  $\approx$  5-6.

12. *Fusarium Allii-sativi* Allesch. Verz. Südbay. Pilze III, p. 131. 4160

*Hab.* in scapis Allii sativi in hortis Unterammergau Bava-  
 riæ. — Effusum, compactiusculum, roseum; conidia fusoidea, acuta,  
 recta v. curvula, 3-5-septata, hyalino-rosea, 40-50  $\approx$  4-5.

13. *Fusarium granulosum* E. et E. Proceed. Acad. N. Sc. Philad. 1893, 4161  
 p. 466.

*Hab.* in caulibus emortuis Smilacis hispidae, Delaware  
 Amer. bor. (COMMONS). — Sporodochia sparsa, erumpentia, granuli-  
 formia, carnea; hyphæ obtusæ, inæqualiter ramosæ; conidia fuso-  
 idea, curvula, 3-septata, 30-55  $\approx$  3-3.5 hyalina.

14. *Fusarium Scirpi* Lamb. et Fautr. Rev. mycol. 1894, p. 111. 4162

*Hab.* in calamis Scirpi lacustris, Côte-d'Or Galliæ. — Spo-  
 rodochia minuta, inæqualia; conidia falcata, utrinque acuta, 5-7-  
 septata, 50-60  $\approx$  5-6. Affine *F. Caricis*.

15. *Fusarium stromaticum* Delacr. Bull. Soc. Myc. 1893, pag. 186, 4163  
 T. XI, f. 5.

*Hab.* in seminibus glumisque Gramineæ cujusdam in ins.  
 Mayotte Africæ. — Sporodochia effusa, cinnabarina, compacta; spo-  
 rophora, erecta continua vix furcata, 40-50  $\approx$  3-4; conidia falcata,  
 acuta, hyalina, 1-3-septata, intus granulosa, 20-23  $\approx$  3.

16. *Fusarium culmorum* (W. Sm.) Sacc. *Fusisporium* W. Sm. Diseases. 4164  
 of field and garden crops. London 1894, pag. 209.

*Hab.* in spicis Triticæ sativi in Britannia. — Flavco-aurantiacum, gelatinosum, effusum; hyphæ parce septatæ, torulosæ, effusæ, fertiles brevissimæ, continuæ, simplices; conidia fusoideo-falcata, utrinque acutula, 3-5-septata, vix constricta, aurantiaca, 28-32  $\times$  6-8.

17. *Fusarium Hordei* (W. Sm.) Sacc. *Fusisporium* W. Sm. *Diseas.* 4165 pag. 210.

*Hab.* in caryopsidibus *Hordei* in Dania. — Roseum v. purpureum, gelatinosum, effusum; hyphæ repentes, septatæ, fertiles subfurcatæ, septatæ, denticulatæ; conidia fusoideo-falcata, acutissima, 3-septata, vix constricta, roseo-purpurea, 30-32  $\times$  5.

18. *Fusarium Lolii* (W. Sm.) Sacc. *Fusisporium* W. Sm. *Dis.* p. 213. 4166

*Hab.* in caryopsidibus, *Sclerotio* infectis, *Lolii* perennis in Britannia. — Aurantium, gelatinosum, effusum; hyphæ repentes, septatæ, fertiles subsimplices, septatæ, denticulatæ; conidia fusoidea, curvula, acuta, 3-septata, vix constricta, aurantiaca, 28-30  $\times$  5.

19. *Fusarium callosporium* Pat. *Bull. Soc. Myc.* 1893, p. 164. 4167

*Hab.* parasitice in *Septobasidio pedicellato*, pr. Quito *Æquatoris*. — Sparsum, tuberculiforme, rubrum, 0.5 mm. diam. carnosum; hyphæ longissimæ, 150  $\approx$  3, sæpe furcatæ; conidia cylindracea, curvula utrinque attenuata, hyalina, 7-septata, 80  $\approx$  6.

20. *Fusarium Æcidii-Tussilaginis* Allesch. *Verz. Südbay. Pilze* III, 4168 pag. 131.

*Hab.* ad *Æcidia Tussilaginis* pr. Oberammergau Baviaræ. — Diffusum, tenuissimum, incarnatum; hyphæ fasciculatæ, albide; conidia fusoidea, recta v. curvula, acuta, 6-septata, subhyalina, 40-60  $\approx$  3.5-4.5.

21. *Fusarium Pteridis* E. et Everh. *N. A. Fung. n.* 2982, *F. Co-* 4169 *lumb.* 98, *Proceed. Acad. Philad.* 1893, p. 466.

*Hab.* parasitice in *Phyllachora Flabello* ad frondes *Pteridis aquilinæ*, Newfield N. J. Amer. bor. — Erumpens, album, effusum; hyphæ septatæ, ramosæ; fertiles erectæ, ramosæ; conidia fusoidea, recta, 1-3-septata, 25-40  $\approx$  3.5, hyalina.

22. *Fusarium Magnusianum* Allesch. *Fung. bavar. exsicc. n.* 400. 4170

*Hab.* in *Cryptomycete* maximo vetusto ad ramulos *Salicis incanæ*, socia *Nectria Magnusiana*, cujus videtur status conidicus, München Baviaræ. — Sporodochia compacta, irregularia, tecta dein libera, sanguinea; hyphæ dendroideo-ramosæ, hyalinæ; conidia fusoidea, curvula, dein continua, dein 1-septata, utrinque acutula, 20-30  $\approx$  3-4, hyalina.

23. *Fusarium Müntzii* Delacr. Bull. Soc. Myc. 1892, p. 192, t. XVII, 4171 fig. V.

*Hab.* in materia animali (sanguine, cornubus, lana) ad terram dejecta, putri, Parisiis. — Effusum, sublanatum, candidum; hyphæ repentes, septatæ, ramosæ, 5-6  $\mu$ . cr.; sporophora ramosa sursum acuta; conidia falcata, hyalina, demum 3-septata, gutturala, 25-30  $\approx$  4-5.

24. *Fusarium stercorarium* Rostr. Oest-Grönl. Svampe p. 32. 4172

*Hab.* in fimo in Dania. — Crustaceum, effusum, nigrescens; hyphæ subhyalinæ, compactæ; conidia late fusoidea, compressa, 15-18  $\times$  6-8, fusca, numerosa.

**DISCOCOLLA** Prill. et Delacr. Bull. Soc. myc. 1894, p. 86 (Etym. *discus* et *colla*). — Sporodochia pulvinata; sporophora hyalina, septata, simplicia v. palmato-ramosa; conidia cylindracea, 2-3-septata, hyalina, interdum parce catenulata.

1. *Discocolla pirina* Prill. et Delacr. Bull. Soc. Myc. 1894, p. 86. — 4173  
Grisea, erumpens; sporophoris plerumque simplicibus, septatis 80-100  $\mu$ . long.; conidiis hyalinis, granulatis 1-2-3-septatis, 13-18  $\times$  3-4, rectiusculis, utrinque obtusulis.

*Hab.* in macula fulva, depressa fructus Piri communis in Gallia.

**MICROCERA** Desm. — Syll. IV, p. 731, X, p.

1. *Microcera erumpens* Ell. et Ev. Proc. Acad. Phil. 1894, p. 386. 4174

*Hab.* in ramis emortuis *Tsugæ canadensis* in Virginia occid. (NUTTALL). — Sporodochia depresso-globosa, 0,5 mm. diam. innato-erumpentia, aurantiaca, demum secedentia et foveolam in cortice relinquentia; conidia falcata, 3-pluri-septata, 75-83  $\approx$  3-4, hyalina; sporophora 20-35  $\mu$ . longa, sursum ramosa.

### Sect. 3. Helicosporæ.

**HOBSONIA** Berk. apud Massee A new genus of Tuberculariæ (Ann. of Bot. Lond. 1891, V, p. 509, fig. 1). — Sporodochia verruciformia, superficialia; conidia muco initio immersa, cylindracea, hyalina, in tubum spiraliter laxè convoluta, pluriarticulata. — A *Troposporio* conidiis septatis, ab *Everhartia* et *Troposporella* conidiis hyalinis, tubuloso-convolutis distinguitur.

1. *Hobsonia gigaspora* Berk. apud Massee l. c. fig. 1 (ex lapsu sub 4175

nomine *macrospora*). — Sporodochiis ochraceis, hemisphaericis v. subinaequalibus, sæpe confluentibus, 2-4 mm. diam.; conidiis cylindraceis, dense septatis, articulis cuboideis 10-11  $\mu$ . diam., hyalinis, in spiras 4-6 laxè convolutis, tubulum oblongum, 70-80  $\approx$  35-40 formantibus.

*Hab.* in culmis *Bambusæ* in Venezuela. — Diagnosis nunc mihi desideratur.

**TROPOSPORELLA** Karst. Hew. 1892, p. 299 (Etym. *Troposporium*, cui affinis). — Sporodochia pulvinata, superficialia, farinacea, fuligineo-olivacea; hyphæ (conidiophora) ramulosæ, moniliformi-articulatæ, subfuliginæ; conidia cylindracea, in spiras arcte convoluta, septata, subfuliginea.

1. **Tropospora fumosa** Karst. l. c.

4176

*Hab.* in cortice vetusto *Populi tremulæ* ad Mustiala Fennicæ. — Sporodochia globulosa, subsessilia, olivaceo-fusca, 0,2 mm. diam.; hyphæ fasciculatæ 60-90  $\mu$ . long.; conidia in spiras binas convoluta, 10-11-septata, dilute fuliginea, tota 12-15  $\mu$ . diam.

Ser. 2. Tuberculariæ dematiæ Sacc.

Sect. 4. Amerosporæ.

**EPICOCCUM** Link — Syll. IV, p. 736, X, p. 732.

1. **Epicoccum Magnoliæ** Togn. Seconda Contr. Mic. tosc. p. 19. 4177

*Hab.* in foliis putrescentibus *Magnoliæ grandifloræ* in Etruria. — Sporodochia punctiformia, aterrima; conidia lentiformia, brunnea, levia, 8-11  $\mu$ . diam. e latere 4,5-6  $\mu$ . cr. « Ob conidia non reticulata, an novi generis typus? ».

2. **Epicoccum asperulum** Otth Bern. Mittheil. 1868 p. 62.

4178

*Hab.* in foliis vivis *Citri Aurantii*, Bern Helvetiæ. — Hypophyllum, badio-nigrum, subgloboso-depressum, compactum, intus pallidum; conidia sessilia, brunnea, subglobosa v. obovata, basi hyalino-papillata, asperula, (simulate?) radiatim septata.

3. **Epicoccum Negundinis** Otth Bern. Mittheil 1870. p. 111.

4179

*Hab.* in ramis siccis *Aceris Negundinis*, Bern Helvetiæ. — Sporodochia nigra, maculæ canescenti insidentia, minuta, globoso-subdepressa; conidia globosa, umbrina, scabriuscula, sessilia.

4. **Epicoccum echinatum** Pegl. Contr. micol. Avell. p. 38.

4180

*Hab.* in foliis languidis *Aceris Pseudo-platani*, Villa



Balestrieri pr. Avellino Ital. merid. — Sporodochia sparsa, atra macula nigrescenti insidentia, 0,2-0,3 mm. diam.; sporophora continua, 16-20  $\mu$ . long., e chlorino hyalina; conidia globoso-ovoidea v. subcuboidea, ex articulis 4 murali-divisis composita, 28-30  $\mu$ . diam., atro-olivacea, spinulis rigidis 12-14  $\mu$ . longis, radiantibus, chlorino-hyalinis armata.

5. **Epicoccum sulcatum** Delacr. Bull. Soc. Myc. 1892, p. 192, t. 4181 XVII, f. IV.

*Hab.* in caulibus siccis Urticæ urentis, Issy pr. Parisios. — Sporodochia pulvinata, atro-brunnea, punctiformia, superficialia, 0,3 mm. diam.; conidia globosa, 18  $\mu$ . diam., reticulatim sulcata, leviter echinulata; badio-fusca; pedicello hyalino, subclavato, 7-8  $\approx$  3,5.

6. **Epicoccum levisporum** Pat. Bull. Soc. Myc. 1893, p. 164. 4182

*Hab.* in foliis Sacchari officinarum, San Nicolas Æquatoriæ (LAGERHEIM). — Maculæ exaridæ, latissimæ, irregulares; sporodochia 60-120  $\mu$ . diam., hemisphærica, atra; hyphæ breves, torulosæ, septatæ, fuliginæ, apice sporophora globosa 10  $\mu$ . diam., capitata, monospora gerentes; conidia subglobosa, levia e luteo-fusco demum atra, opaca, 15  $\mu$ . diam.

**STRUMELLA** Sacc. — Syll. IV, p. 742, X, p. 733.

1. **Strumella steganosporioides** E. et E. Proceed. Acad. N. Sc. Philad. 4183 1893, pag. 465.

*Hab.* in ramis emortuis Carpini americanæ, London Canada (DEARNESS). — Sporodochia tuberculiformia, intus cellulosa, albida, 0,7-1 mm. diam., passim confluentia; conidia obovata, globosa v. subelliptica, 23-35  $\mu$ . long., olivaceo-brunnea, reticulata (*steganosporioidea*), strato prolifero pedicellis brevissimis, crassis adherentia.

**CHÆTOSTROMA** Corda. — Syll. IV, p. 749, X, p. 737.

1. **Chætostroma Sacchari** Massee Grev. XXII, p. 67. 4184

*Hab.* in foliis languidis Sacchari officinarum, Barbados (BOVELL). — Gregarium, velutinum, nigrum, 2 mm. lat.; hyphæ steriles erectæ, conico-subulatæ, atro-brunneæ, septatæ, rigidæ, 80-150  $\times$  7-12; conidia globoso-angulosa, levia, atro-brunnea, 10-12  $\mu$ . diam.; sporophora cylindrica, continua, hyalina, 15-20  $\approx$  3.

**MYROTHECIUM** Tode. — Syll. IV, p. 750, X, p. 737.

1. *Myrothecium cinereum* Cooke Grev. XX, p. 113.

4185

*Hab.* in pseudobulbis *Oncidii* in horto bot. Glasnevin Britanniae. — Subcupulare, dein applanatum, 0,5 mm. diam., gregarium v. confluent, disco atro-cinereo, margine albido; conidia cylindræa, utrinque rotundata, 13-15  $\times$  3, hyalina; sporophora longa, simplicia, fasciculata.

## Sect. 5. Phragmosporæ.

**EXOSPORIUM** Link. — Syll. IV, p. 755, X, p. 738.1. *Exosporium Platani* Otth Bern. Mittheil. 1868, p. 62.

4186

*Hab.* in ramis dejectis *Platani* pr. Bern Helvetiæ. — Sporodochia tuberculiformia, compacta, minuta, nigra; conidia sessilia cylindræa v. sursum incrassata, septata, brunnea.

2. *Exosporium exasperans* Karst. Hedw. 1895, p. 8.

4187

*Hab.* in cortice ramorum *Tiliæ* pr. Mustiala Fenniae. — Sporodochia atra, 0,2-0,3 mm. diam.; conidia 6-8-septata, 100  $\times$  6-10 fuliginea.

**CILIOFUSARIUM** Rostr. Beihefte Bot. Centralbl. 1893, p. 4. (Etym. *cilium* et *Fusarium*). — Sporodochia laxiuscula, atra; hyphæ remote septatæ, brunneæ; conidia cylindræa, curvula, 3-septata, hyalina, utrinque setâ in partem conidii concavam versâ prædita.

1. *Ciliofusarium umbrosum* Rostr. l. c.

4188

*Hab.* in cortice interiore *Quercus* in Dania. — Hyphæ 2-3,5  $\mu$ . cr.; conidia 20-25  $\times$  5.

## Sect. 6. Dictyosporæ.

**CHÆTOSTROMELLA** Karst. Hedw. 1895, p. 8 (Etym. a *Chætostroma*). — Sporodochia erumpenti-superficialia, pulvinata, setulosa, atra; conidia stipitata, ellipsoidea, pluriseptato-muriformia, fuliginea.

1. *Chætostromella Tiliæ* Karst. l. c.

4189

*Hab.* in cortice ramorum *Tiliæ* p. Mustiala Fenniae. — Sporodochia atra, setulis 40-100  $\times$  2-3, fuliginis obsita; conidia 9-septato-muriformia, 30  $\times$  9-15, ex hyalino fuliginea.

## FUNGI FOSSILES

Cfr. Meschinelli in Syll. fung. X, p. 741

Quum præclarus Doct. MESCHINELLI nunc temporis sedulo incumbat in *Iconographiam et descriptionem mycetum fossilium hucusque cognitorum*, hic nomina tantum formarum Syllogi addendarum subungere putavi. Earum plurimas prælaudatus vir mihi benevole indicavit.

1. **Agaricites melleus** L. (*Agaricus*) cfr. Conv. Karlsdorf. p. 26, t. V, 4190 f. 16, 17, J. Felix Stud. foss. Pilze p. 278.  
*Hab.* ad ligna fossilia Cupressoxyli in Silesia.
2. **Æcidites Nerii** Ed. Bureau in Bull. Soc. géol. Franc., IX, 1881, 4191 p. 290 (*Æcidium Nerii*).  
*Hab.* in formatione eocænica, Bois Gouët Galliæ.
3. **Perisporiacites Larundæ** J. Felix Stud. foss. Pilze p. 271. fig. 3. 4192  
*Hab.* in ligno fossili Tænioxyli porosi in form. eocænica Perekeschkul pr. Baku Rossisë asiaticæ.
4. **Leptosphærites Ligeæ** J. Felix Stud. foss. Pilze p. 271. fig. 9. 4193  
*Hab.* in form. eocænica pr. Baku Rossisë asiaticæ.
5. **Sphærites problematicus** Know., in Lesq., The Fl. of the Dakota 4194 Group, Un. St. Geol. Surv. Washington, 1891, vol. XVII, p. 23, tav. XXXI, f. 2,2 (*Sphæria*). — Peritheciis sparsis, punctiformibus, rotundatis vel ovalibus, raro triangulatis, 0,5–1 mm. diam.; ostiolo centrali, duobus annulis prominentibus circumdato.  
*Hab.* ad folia Sterculiæ Snowii Lesqu., in formatione cenomaniana Ellsworth County, Kansas, Amer. bor. *Sph. Braunii* Heer simillimus.
6. **Sphærites Kinkelini** Engelh., Flora aus dem Paludineuschichten 4195 Caplag. etc. p. 172, t. I, fig. 1, (*Sphæria*)
7. **Rosellinites Beyschlagii** Potonié, Fl. d. Rothlieg. v. Thüring., p. 4196 27, tab. I, fig. 8 (Abhandl. d. k. preuss. geol. Landesanstalt 1893).
8. **Chætosphærites bilychnis** J. Felix Stud. foss. Pilze p. 272, fig. 4. 4197  
*Hab.* in formatione eocænica pr. Baku Rossisë asiaticæ.

9. **Dothidites Nerii** Ed. Bureau et Patouillard (Bull. Soc. Sc. nat. de 4198  
l'Ouest de la France (Nantes, 1893) III, p. 267.

*Hab.* in formatione eocænica, Bois Gouët Galliae.

10. **Hysterites Cordatis** Grand d'Eury in Potonié Flora des rothlieg. 4199  
Thüring. p. 25, pl. I, f. 5.

11. **Phacidites Myrtophylli** Engelh., üb. Kreidepfl. v. Niederschöna, 4200  
Abh. d. Ges. Isis in Dresden, 7, 1891, p. 2, f. 10 *a b* (*Phacidium*).  
Meschin., Rasseg. Sc. geol., Roma 1893, Anno II, fasc. 4, p. 250.  
— Peritheciis rotundatis, planis, mm. 0.5–2 diam., margine parum  
elevato circumdatis.

*Hab.* ad folia Myrtacearum ex argilla schistosa cenoma-  
niana Niederschöna prope Freiberg Saxoniae.

12. **Excipulites Neesii** Goepp. in Potonié, Die Flora des rothliegenden 4201  
von Thüringen (Abhandl. d. k. preuss. geol. Landesanstalt, Neue  
Folge, Heft 9, Theil II, 1893, p. 19, pl. I, f. 9, 10).

13. **Trichosporites Conwentzi** J. Felix Stud. foss. Pilze p. 273. 4202

*Hab.* in ligno fossili Cedroxylis cr. Ryedal ad Balticum.

14. **Haplographites cateniger** J. Felix Stud. foss. Pilze p. 274, f. 5–6. 4203

*Hab.* in ligno fossili Tænioxyli porosi pr. Baku Rossiae  
asiaticæ.

15. **Haplographites xyiophagus** J. Felix Stud. foss. Pilze p. 276, f. 7. 4204

*Hab.* in ligno fossili Helictoxyli Römeri in Galicia.

16. **Cladosporites bipartitus** J. Felix Stud. foss. Pilze p. 276, fig. 1. 4205

*Hab.* ad ligna fossilia form. eocænica pr. Baku Rossiae asiaticæ.

17. **Dictyosporites oculatus** J. Felix Stud. foss. Pilze p. 277 fig. 2. 4206

*Hab.* ad ligna fossilia Rhamnacinii affinis pr. Baku Ros-  
siae asiaticæ.

18. **Bacillus amylobacter** Van Tieghem sur le ferm. butyr. (Bacillus 4207  
amylobacter) à l'époque de l'houille, Compt. rend. de l'Acad. de  
Sc., 1879, vol. LXXXIX, p. 1102, J. James, Fossil Fungi, Cincinnati.  
Soc. of Nat. Hist., July–October, 1893, p. 96–97.

*Hab.* ad ligna silicisata formationis carboniferae, S. Etienne  
Galliae.

19. **Leptothrix buccalis** Robin et Leb., Müller, Der Einfl. d. Micro- 4208  
org. auf die Carie der Zähne, Archiv. für experim. Pathol., vol.  
XIV, 1882.

*Hab.* ad tartarum dentorum gabarrarum Ægyptii.

20. **Spegazzinites cruciformis** J. Felix Stud. foss. Pilze p. 279, f. 8. 4209

*Hab.* ad ligna fossilia Pinitis Protolaricis in Mecklenburg.

21. **Achlya penetrans** M. Duncan, On some thalloph. parasit. within 4210

recent Madreporaria, (Proc. Roy. Soc. London, vol. XXV, 1876, pp. 17-18, 238-257.

*Hab.* ad Corallia formationum Silurianæ et tertiariæ.

22. *Palæoperone endophytica* Etheridge R., On the occurrence of 4211  
microscopic. fungi allied to the genus *Palæachlya* Dunc. in the  
Permo-Carbon. Rocks of New South Wales and Queensland, Geol.  
Surv. N. S. Wales, vol. II, Sydney, 1891, pp. 95-99, pl. 1.

*Hab.* ad Stenoporam crinitum.

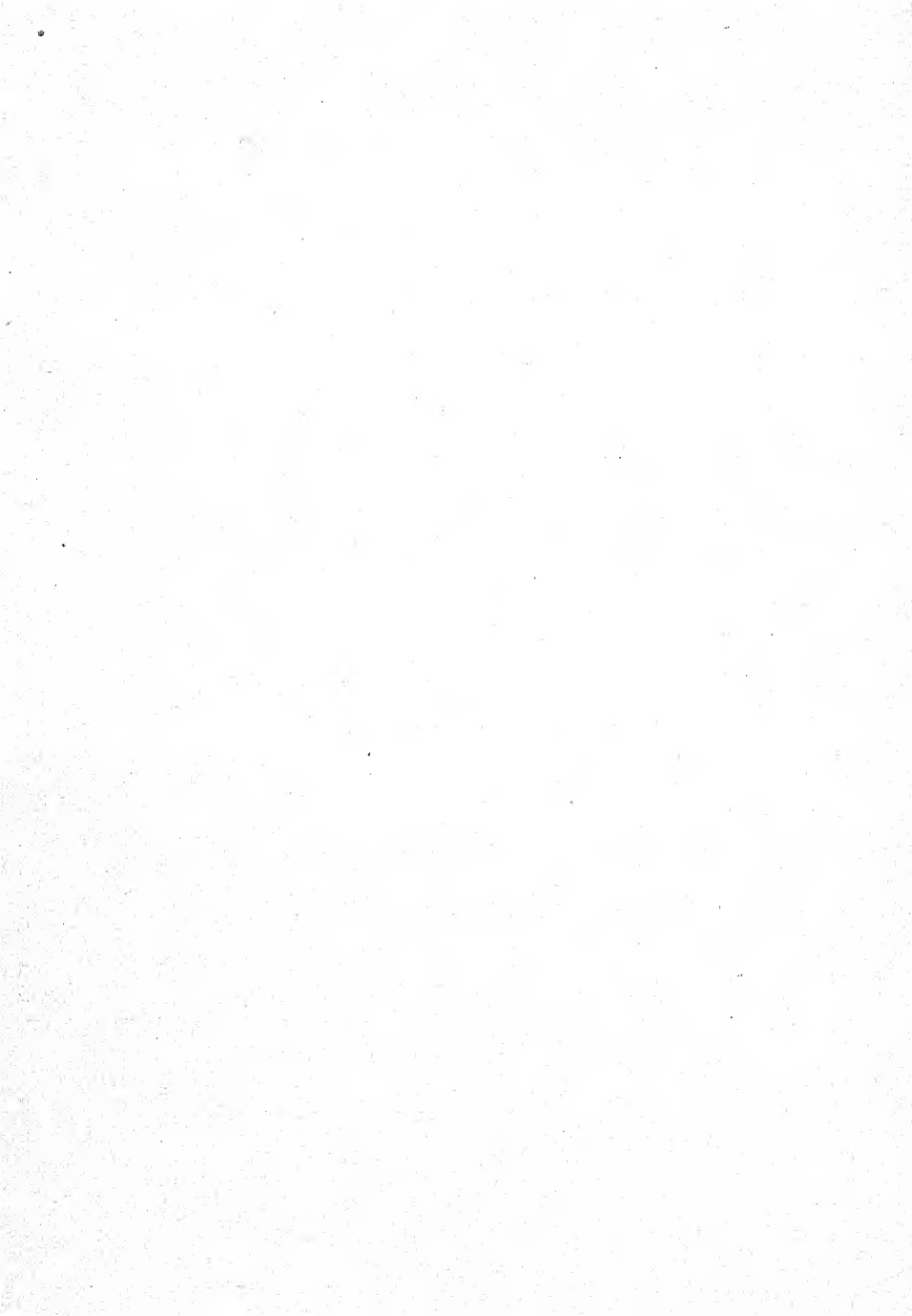
23. *Palæachlya* . . . . . Etheridge (ut supra). 4212  
24. *Dactyloporus archæus* Herzer A new Fungus from the Coal. 4213  
Mesures (American Geologist, 1893, XII, p. 289-290, pl. XIII, et  
vol. XI, p. 365-366. pl. XI).  
25. *Teleutospora Milloti* Renault Sur quelques nouv. paras. des lépi- 4214  
dodendrons (Soc. d'hist. nat. d'Autun, Proc. verb. des séances de  
1893, p. 171, 1894).  
26. *Oochytrium Lepidodendri* Renault, ut supra, p. 174. 4215  
27. *Grilletia Sphærospermii* Renault et Bertrand (Compt. rendus de 4216  
l'Acad. de Sc., 18 maj. 1885).  
28. *Bretonia Hardingeni* Bertrand et Hovelacque (Compt. rendus de 4217  
l'Acad. de Sc., 1892).  
29. *Inceloria securiformis* H. Herzer, A New Fungus from the Coal 4218  
Measures (American Geologist 1893, XI, p. 365-366; pl. IX et XII,  
p. 289-290, pl. XIII).

*Hab.* in formatione carbonifera Ohio Amer. bor. ad corticem  
Sigillariæ.

30. *Phyllerites Brandenburgii* Engelh., Flora aus den unter. Paludi- 4219  
nenschichten d. Caplagrab. bei Podvin etc. (Abh. Senckenb. nat.  
Gesellschaft, XVIII. 1894, p. 172, pl. 1, fig. 2,3).  
31. *Sclerotites?* sp. Know., in Lesq., The foss. Fl. of the Dakota 4220  
Group, Un. St. Geol. Surv. Washington 1891, vol. XVII, p. 23  
tav. LIX, 4, 4 (*Sclerotium?*).

*Hab.* ad folia Macclintockiæ cretaceæ Heer in forma-  
tione cenomaniana Ellsworth County (?), Kansas, Amer. bor. — Pe-  
ritheciorum dispositione *Scl. Cinnamomi* Heer (Nachtr. z. Mioc. Fl.  
Grönl., p. 12. t. I, f. 2, 2 b) in mentem revocat.





# REPERTORIUM

## Fungorum in vol. XI descriptorum

secundum matrices (vegetabilia et animalia).

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Obs. D. indicat: *Discomyceteas*. — *Ga. Gasteromyceteas*. — *H. Hyphomyceteas*. — *Hy. Hypodermeas*. — *L. Laboulbeniaceas*. — *M. Myxomyceteas*. — *Me. Melanconiaceas*. — *My. Myxobacteriaceas*. — *O. Onygenaceas*. — *P. Phycomyceteas*. — *Ph. Phymatosphæriaceas*. — *Py. Pyrenomyceteas*. — *S. Saccharomyceteas*. — *Sp. Sphærospideas*. — *T. Tuberoideas*.

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- Abies* — Py. 1512, 1945, 2112, 2328.  
— D. 2552, 2569. — M. 2911, 2941, 2944. — Sp. 3230, 3244, 3417, 3418, 3443, 3567. — Me. 3722, 3724. — H. 3784, 3795, 3821, 3911, 3989, 4134.
- Abtinus* — L. 2809.
- Acer* — Py. 1626, 1639, 1745, 1814, 1815, 1889, 1890, 1891, 1932, 1970, 2072, 2095, 2327, 2394. — D. 2635, 2644, 2710. — Sp. 2973, 3053, 3160, 3170, 3211, 3249, 3317, 3320, 3351, 3469, 3470, 3471, 3576. — Me. 3624, 3625, 3626, 3666, 3685, 3745, 3772. — H. 3832, 3864, 3907, 3910, 4089, 4090, 4091, 4179, 4180.
- Acerates* — H. 4027.
- Acacia* — Ga. 1014. — Hy. 1025, 1199, 1200, 1204, 1205, 1206, 1272, 1293.  
— Py. 1641, 1777, 1778, 2263. — Hy. 1276.
- Acarus* — H. 4106.
- Achillea* — S. 3364.
- Achlya* — P. 1426, 1428, 1435.
- Achlys* — Sp. 3354.
- Achyroclines* — D. 2528.
- Acocanthera* — Py. 1526.
- Aconitum* — Hy. 1218. — D. 2496, 2511, 2537. — Sp. 3154.
- Acorus* — Sp. 3292. — Me. 3765. — 4116.
- Acrogenys* — L. 2794.
- Actæa* — Mc. 3697.
- Actinosphærium* — P. 1405.
- Actobius* — L. 2854, 2855, 2866.
- Acylophorus* — L. 2853.
- Adenostyles* — D. 2509, 2559.
- Adonis* — Hy. 1216.
- Æcidium* — H. 4168.
- Ægiphila* — Hy. 1108.
- Ægopodium* — Sp. 3112, 3361.
- Æsculus* — P. 1370. — Py. 1630. — S. 2881. — Sp. 3221, 3274, 3403, 3481. — H. 3790.
- Æthionema* — Hy. 1219.

- Afzelia — Py. 1708.  
 Agaricus — Sp. 3152. — H. 3779, 3854.  
 Agave — Me. 3682.  
 Agropyrum — Hy. 1054, 1148. — Sp. 3535, 3536.  
 Agrostis — Hy. 1138, 1153. — Py. 1833.  
 Ailanthus — Py. 1642, 1660, 1818. — Me. 3679.  
 Akebia — Py. 1960. — Sp. 3358.  
 Alchemilla — Py. 1748.  
 Aleuria — H. 3798.  
 Algae — Py. 1673, 2087.  
 Alisma — Sp. 3048.  
 Allionia — Hy. 1207.  
 Allium — Hy. 1045, 1128. — P. 1399, 1468. — H. 3803, 4160.  
 Alnus — Py. 1763, 2055, 2091, 2178, 2240. — D. 2421, 2472, 2478, 2088, 2515. — Sp. 3396, 3525. — H. 3818.  
 Aloe — Hy. 1298. — Py. 1509, 2325, 2329.  
 Alopecurus — Me. 3742.  
 Alphonatia — Me. 3628.  
 Alsine — Sp. 3548.  
 Alstroemeria — H. 3957.  
 Althæa — Hy. 1072. — Me. 3629.  
 Amaranthus — Sp. 3130, 3131.  
 Ambrosia — Py. 1769.  
 Amelanchier — Py. 1882.  
 Ammi — Sp. 3110, 3111.  
 Ammophila — Py. 1928, 2114. — Sp. 3458.  
 Amorpha — Hy. 1274. — Py. 1632, 1886.  
 Ampelopsis — Py. 2189. — Sp. 3162, 3322, 3483. — Me. 3665.  
 Ananassa — H. 3923, 4130.  
 Anchusa — H. 3878.  
 Anchomenus — L. 2796.  
 Andromeda — Py. 2349.  
 Andropogon — Hy. 1058, 1147, 1303, 1324, 1332. — Py. 1852, 1995, 2066, 2121, 2174. — D. post. 3703.  
 Anemone — Sp. 3004, 3007. — H. 3898. — Sp. 3425.  
 Anethum. — Hy. 1236.  
 Angelica — Py. 2338.  
 Aniba — Sp. 2976.  
 Anisodactylus — L. 2807, 2810, 2819.  
 Anisoplia — H. 3788.  
 Anoda — Sp. 3108.  
 Anomoglossum — L. 2842.  
 Anophthalmus — L. 2837, 2847, 2852.  
 Ansellia — Py. 1783. — H. 3924.  
 Anthriscus — Sp. 3109. — H. 4009.  
 Anthurium — Hy. 1316.  
 Anurella — P. 1473.  
 Aphanomyces — P. 1426.  
 Aphis — H. 3853.  
 Apis — P. 1364.  
 Apium — Sp. 3019, 3561.  
 Aplectrum — Sp. 3044. — H. 3955.  
 Aplopappus — Hy. 1101.  
 Apocynæ — Py. 1573.  
 Apocynum — Hy. 1063.  
 Aposeris — Sp. 3025.  
 Aquilegia — Hy. 1153. — Py. 1794. — Sp. 3006.  
 Arabis — Py. 1796. — D. 2600. — Sp. 3559.  
 Arachnida — Ph. 2243.  
 Aralia — Ph. 1600, 1631, 1767, 1893. — D. 2606. — Sp. 3021, 3208, 3434, 3496.  
 Aranea — H. 4103.  
 Arara-apoku — Py. 2352.  
 Araucaria — Hy. 1318.  
 Arbutus — Hy. 1290. — H. 4082.  
 Archangelica — D. 2407.  
 Arctostaphylos — Hy. 1188. — Py. 2027, 2391. — Sp. 3236.  
 Areca — Me. 3657.  
 Aristida — Hy. 1155.  
 Armoracia — Sp. 3011.  
 Arrabidaea — Py. 2291.  
 Arracacha — H. 4015.  
 Artemisia — Py. 2003, 2004, 2005, 2141, 2157, 2182. — D. 2560. — Sp. 3549. — Me. 3610. — H. 3961, 4018.  
 Arthraxon — Hy. 1053.  
 Arum — Sp. 3374. — Me. 3680. — H. 3886, 3925.  
 Arundinaria — Py. 1785, 1929, 2254. — D. 2681.  
 Arundo — Hy. 1157.



- Ascaris* — P. 1363.  
*Asclepiadaceæ* — Hy. 1120, 1122 — Py. 2344.  
*Aselepias* — Py. 2124. — Sp. 3370. — H. 3959, 4028.  
*Asimina* — Py. 1694, 1824. — Sp. 3273 bis. — H. 4078.  
*Asinus* — D. 2620, 2621.  
*Asparagus* — Py. 1836. — H. 4159.  
*Asperula* — Py. 1809. — Sp. 3121, 3557.  
*Asphodelus* — Me. 3733.  
*Aspidistra* — Me. 3681.  
*Aspidium* — D. 2721. — Sp. 3151, 3575.  
*Aspidoglossa* — L. 2795.  
*Aspidosperma* — Py. 1557, 2292, 2353.  
*Asprella* — Py. 2305. — Sp. 3534.  
*Aster* — Py. 2282. — Sp. 3028. — H. 4074.  
*Asterina* — D. 2609.  
*Astilbe* — Hy. 1184.  
*Astragalus* — Hy. 1021. — D. 2670. — Sp. 3399, 3467.  
*Astrantia* — Sp. 3545.  
*Astronium* — Py. 1592.  
*Athyrium* — Me. 3768.  
*Atranas* — L. 2760.  
*Atriplex* — Hy. 1348.  
*Atropa* — Sp. 3365. — H. 3877.  
*Aucuba* — Sp. 3065, 3067.  
*Auricularia* — H. 3799.  
*Azalea* — H. 4093. — Py. 2125.  
*Avena* — Hy. 2160 — Sp. 3533, 3595.  
  
*Raccharis* — Py. 1484, 1521, 1802, 2310. — Sp. 3363, 3436. — H. 4019.  
*Bacillariaceæ* — P. 1456.  
*Badisterus* — L. 2825.  
*Balanus* — Py. 1853.  
*Balsamina* — Sp. 3099.  
*Balsamorhiza* — Hy. 1092.  
*Bambusa* — Ga. 926. — Hy. 1145, 1146. — Py. 2211, 2215. — Sp. 3531, 3594. — Me. 3691. — H. 4175.  
*Barnadesia* — Py. 1520, 2177.  
*Bauhinia* — Hy. 1024. — Py. 1575.  
*Begonia* — Py. 1800, 2267.  
  
*Bembidium* — L. 2799, 2801, 2803, 2806, 2833.  
*Berberis* — Hy. 1070, 1071, 1154, 1171, 1312. — Py. 1910, 1964, 2119. — Sp. 3051, 3382.  
*Berosius* — L. 2857, 2862, 2865.  
*Beta* — Hy. 1346. — Sp. 3129.  
*Betonica* — Sp. 3032. — H. 3847.  
*Betula* — Py. 1715, 1731, 1828, 1844, 2012, 2013, 2024, 2158, 2316, 2320, 2374. — D. 2487, 2554, 2618, 2637, 2650, 2700. — S. 2876. — Sp. 3205, 3441. — Me. 3673, 3744. — H. 3827, 3919, 3967, 4096, 4143, 4145.  
*Bidens* — P. 1475. — Sp. 3388.  
*Bidessus* — L. 2772.  
*Bigelovia* — Hy. 1105. — H. 4045.  
*Bignonia* — Sp. 3311.  
*Bignoniaceæ* — Py. 1583.  
*Bistropogon* — Py. 1524, 2050.  
*Bledius* — L. 2759, 2761, 2762, 2763, 2786.  
*Boerhavia* — P. 1387.  
*Borreria* — P. 1396. — H. 4017.  
*Botrytis* — D. 2724.  
*Bouteloua* — Hy. 1152.  
*Brachinus* — L. 2797, 2839.  
*Brachypodium* — Sp. 3148, 3537.  
*Bradycellus* — L. 2815.  
*Brassica* — Py. 2193. — Sp. 3095, 3182. — H. 3840, 3890, 4048, 4079.  
*Breweria* — Py. 1567.  
*Bromus* — Sp. 3423.  
*Brunella* — Sp. 3035. — Ph. 2081, 2176.  
*Bryopsis* — P. 1421.  
*Bubalus* — D. 2624.  
*Buddleia* — Py. 1548, 1597. — Sp. 3338.  
*Buphthalmum* — Sp. 2503.  
*Bupleurum* — Sp. 3545.  
*Burchardia* — Hy. 1132.  
*Bursaria* — Py. 1609. — H. 3937.  
*Butomus* — P. 1466.  
*Buxus* — Py. 1952, 1985.  
  
*Cacalia* — Hy. 1098.  
*Cachrys* — Hy. 1031.  
*Cactus* — D. 2678.

Cakile — Sp. 3010.  
 Calamagrostis — D. 2608. — Me. 3766.  
     H. 3896.  
 Calceolaria — Hy. 1343.  
 Calimeris — Sp. 3429.  
 Calistus — L. 2809.  
 Calleida — L. 2821.  
 Calliandra — Hy. 1202, 1209, 1210. —  
     Py. 1492, 1506.  
 Calluna — Py. 2322.  
 Caltha — Hy. 1067, 1068.  
 Calystegia — Sp. 3126.  
 Camellia — Sp. 3319.  
 Campanula — Sp. 3124. — H. 3882.  
 Canis — My. 2889.  
 Cantharis — H. 3835.  
 Capparis — Py. 1489, 2384. — Sp. 3359.  
 Capra — D. 2630.  
 Capreolus — D. 2435.  
 Capsicum — H. 4097.  
 Caragana — Py. 1885. — Sp. 3327.  
 Caragua — Sp. 3147.  
 Cardamine — Hy. 1311.  
 Carduus — Sp. 3029. — H. 3951.  
 Carex — Hy. 1134, 1135, 1136, 1137,  
     1357. — Py. 1993, 1994, 2077, 2309.  
     — D. 2513, 2521, 2532, 2533, 2575,  
     2576, 2667. — Sp. 3144, 3145, 3146,  
     3219, 3302, 3422, 3445, 3446, 3530,  
     3605. — H. 3837, 3941, 3956, 4080.  
 Carica — Sp. 2995, 3229. — Me. 3647.  
     — H. 3958.  
 Carissa — Hy. 1121.  
 Carpinus — Py. 1629, 1633, 2039, 2116,  
     2162. — D. 2677, 2719. — Sp. 3581.  
     — Me. 3771. — S. 2875. — H. 3977,  
     4183.  
 Carum — P. 1460.  
 Carya — Py. 1864, 1865, 1904, 1925,  
     1940, 2037, 2137, 2198, 2356, 2373.  
     — D. 2596. — Sp. 3080, 3258, 3342,  
     3416. — Me. 3648, 3671, 3690, 3731,  
     3762. H. 3905.  
 Caryota — Me. 3654.  
 Cassandra — Py. 2392. — Sp. 3612.  
 Cassia — Hy. 1211, 1212, 1226, 1271.  
     — Py. 2262. — Me. 3726. — H. 4007.

Cassiope — Py. 1924. — D. 2476.  
 Cassytha — Sp. 3076.  
 Castanea — Py. 1751, 1757, 1816, 1817,  
     2048, 2209, 2342. — D. 2556. — Sp.  
     3000, 3086, 3285, 3393, 3397, 3414,  
     3415. — H. 3856, 4126, 4148.  
 Castilleja — H. 3879.  
 Casuarinæ — Ga. 1011.  
 Catalpa — Sp. 3074, 3642.  
 Catoscopus — L. 2798.  
 Caulophyllum — D. 2658. — Sp. 3094.  
 Cavia — Ga. 1019.  
 Ceanothus — D. 2675. — H. 4012.  
 Cedrela — Hy. 1190. — Py. 1515.  
 Cédrus — Hy. 1349. — Py. 2029. —  
     D. 2653.  
 Celastrus — Py. 1643. — H. 4013.  
 Celtis — Hy. 1296. — P. 1297. — Py.  
     1681, 1696, 1941, 2132. — Sp. 3259,  
     3313, 3454, 3523, 3524. — Me. 3689.  
     — H. 4123.  
 Centaurea — Sp. 3116, 3619. — H. 3850.  
 Centranthus — Sp. 3123.  
 Centrosema — Py. 1577.  
 Cephalaria — Sp. 3506.  
 Cerasus — Py. 1849. — H. 4153.  
 Cerastium — Sp. 3355.  
 Cercis — Sp. 3294, 3332, 3449.  
 Cercocarpus — Py. 2323. — Me. 3636.  
 Cervus — Py. 2190.  
 Cestrum — Py. 2280, 2341. — Sp. 3306,  
     3571. — Me. 3694.  
 Chærophyllum — Sp. 3362, 3490, 3589.  
     — H. 4009.  
 Chamædorea — Py. 2256, 2257. — Sp.  
     3353. — Me. 3656.  
 Chara — M. 2962.  
 Characæ — P. 1418.  
 Charea — H. 4102.  
 Chelone — Hy. 1251.  
 Chimaphila — Hy. 1291. — Py. 1811,  
     1812.  
 Chiogene — Hy. 1189.  
 Chionanthus — Py. 1622. — D. 2636.  
     — Sp. 3255.  
 Chlænus — L. 2809, 2827, 2842.  
 Chlamydococcus — P. 1457.

- Chlamydomonas* — P. 1448.  
*Chloris* — Hy. 1144.  
*Chroococcus* — P. 1142.  
*Chrysanthemum* — Sp. 3027, 3497, 3498.  
     — Me. 3756.  
*Chrysopsis* — Hy. 1093.  
*Chusquea* — Py. 1937. — H. 4106.  
*Cicer* — Hy. 1023. — Sp. 3013.  
*Cinchona*. — P. 1385. — D. 2571. —  
     Sp. 2978.  
*Circæa* — Sp. 3489. — H. 3844, 3872.  
*Cirsium* — Hy. 1284. — D. 2509, 2510,  
     2564. — H. 3881.  
*Cissus* — Hy. 1237, 1347. — Py. 1623, 2189.  
*Citrullus* — Sp. 3018.  
*Citrus* — Py. 1653, 1786, 2074, 2383.  
     — Sp. 3215, 3316, 3540. — H. 3812,  
     4100, 4178.  
*Cladophora* — P. 1424, 1425, 1446.  
*Clarkia* — Hy. 1087.  
*Clavaria* — H. 3778.  
*Clematis* — Hy. 1215, 1217. — Py. 1686,  
     1920. — Sp. 3003, 3157, 3381, 3398,  
     3463. — H. 4154.  
*Cleonus* — H. 3787.  
*Clinogyne* — Py. 2253.  
*Clitocybe* — H. 3815.  
*Clivina* — L. 2802.  
*Cluytia* — Hy. 1041.  
*Clytostoma* — Hy. 1033.  
*Cnicus* — Hy. 1103. — H. 4020, 4021.  
*Cocculus* — Sp. 3212.  
*Coccus* — Py. 2244.  
*Cocos* — Py. 1946, 2298. — Sp. 3348.  
     — Me. 3655.  
*Coffea* — Py. 1607.  
*Coix* — Py. 2303.  
*Colchicum*. — Hy. 1047.  
*Colebrookia* — Hy. 1289.  
*Coleoptera* — Py. 2249. — L. 2771.  
*Colpodes* — L. 2851.  
*Colutea* — Sp. 3328.  
*Comandra* — Hy. 1084, 1279.  
*Comarum* — Me. 3633, 3745.  
*Commelina* — Hy. 1044.  
*Compositæ* — Hy. 1242. — Py. 1498,  
     1753, 2283. — D. 2542. — Sp. 3504.  
*Coniferæ* — Py. 2167. — D. 2405.  
*Conium* — Sp. 3544.  
*Convolvulus* — Hy. 1107, 1250. — Py.  
     2333. — Sp. 3233, 3125. — Me. 3748.  
*Conyza* — Hy. 1241, 1315.  
*Coptodera* — L. 2804.  
*Cordia* — Hy. 1213, 1253.  
*Coriaria* — Sp. 3570.  
*Cornus* — Py. 1618, 1692, 1894, 1959,  
     1966, 2104. — D. 2643. — Sp. 2977,  
     3405. — Me. 3667, 3715.  
*Coronilla* — Sp. 3383.  
*Corylus* — Py. 1628, 1655, 1887. — D.  
     2500. — Sp. 3241, 3260, 3281, 3314.  
     — H. 4109.  
*Cosmea* — Hy. 1306.  
*Cotoneaster* — Hy. 1221.  
*Cratægus* — Py. 1884, 2080. — D. 2482.  
     2720. — Sp. 3186, 3171, 3172. — Me.  
     3752. — H. 3947, 4055.  
*Crepis* — Hy. 1090.  
*Crepidogaster* — L. 2843.  
*Crithmum* — Py. 2001. — H. 4057, 4071.  
*Croton* — Hy. 1309. — Py. 1501, 1525,  
     1563, 2293. — Sp. 3522. — H. 4030.  
*Cryptobius* — L. 2789.  
*Cryptomyces* — H. 4170.  
*Cucumis* — Hy. 1106.  
*Cucurbita* — Sp. 3185, 3407. — Me.  
     3639. — H. 4041.  
*Cucurbitacæ* — Me. 3695.  
*Cuniculus* — Ga. 1019.  
*Cuphea* — P. 1406.  
*Cupressus* — Sp. 3304. — H. 4135.  
*Cyathula* — Hy. 1042.  
*Cyathus* — Py. 2224.  
*Cycas* — Sp. 3089, 3090.  
*Cyclamen* — Sp. 3042.  
*Cydonia* — Sp. 3295. — Me. 3728. —  
     H. 3866, 4056, 4150, 4152.  
*Cylindrocysta* — P. 1440.  
*Cymopterus* — Hy. 1078.  
*Cynanchum* — D. 2545, 2657. — Sp.  
     2992, 3433, 3610.  
*Cynodon* — Sp. 3237.  
*Cyperus* — Hy. 1049, 1050, 1140, 1141,  
     1308, 1330. — Py. 1553, 2319.

- Cystopteris* — Hy. 1304.  
*Cytisus* — Hy. 1224. — P. 1391. — Py. 1478, 2168. — D. 2546. — Sp. 3543. H. 3983.  
*Dactylis* — Py. 2316. — D. 2491. — Me. 3662.  
*Dalbergia* — Hy. 1192.  
*Dasyliirium* — H. 3915.  
*Datura* — Sp. 3115. — H. 4069.  
*Daucus* — Py. 1667, 2068. — Sp. 3113, 3493.  
*Deleaster* — L. 2787.  
*Delphinium* — Hy. 1069. — Sp. 3091, 3183.  
*Dematophora* — H. 4059.  
*Derris* — Hy. 1270.  
*Desmanthus* — Hy. 1195.  
*Desmodium* — Pa. 1591, 1907.  
*Desmopachria* — L. 2773.  
*Dianthus* H. 4066.  
*Diapensia* — Sp. 3611, 3368.  
*Diatomeæ* — P. 1444.  
*Diatroea* — H. 4108.  
*Diatrype* — Py. 2089, 2246.  
*Diatrypella* — Py. 2204.  
*Dichondra* — Hy. 1248.  
*Dieliptera* — Hy. 1249.  
*Dicksonia* — Py. 1551.  
*Dictyota* — Sp. 3539.  
*Dieffenbachia* — Py. 2258.  
*Digitaria* — H. 3860.  
*Dioscorea* — Hy. 1046, — Py. 2300. — Sp. 3528.  
*Diospyrus* — Py. 1621.  
*Dipsacus* — Sp. 3030.  
*Dirca* — Py. 1813, 1901. — Sp. 2990.  
*Distichlys* — Hy. 1150.  
*Dodonea* — Py. 1559.  
*Dolichos* — L. 2827. — Sp. 3015.  
*Draba* — Py. 1921. — Sp. 3559.  
*Dracæna* — Py. 1510. — Sp. 3168, 3218.  
*Duranta* — Py. 1483, 1558, 2279. — H. 4049.  
*Echinocystis* — Sp. 3488.  
*Echium* — Sp. 3122.  
*Ehretia* — Hy. 1288.  
*Elæagnus* — Sp. 3077, 3513.  
*Elaphus* — D. 2447.  
*Eleocharis* — Py. 1568.  
*Elephas* — P. 1865.  
*Elymus* — Hy. 1149, 1338, — Py. 1761, 2126. — D. 2522. — Sp. 3538.  
*Empetrum* — Sp. 3369.  
*Entada* — Hy. 1198.  
*Ephedra* — Sp. 3088, 3527.  
*Epialus* — H. 4104.  
*Epichloë* — H. 3836.  
*Epilobium* — Hy. 1086. — Py. 2338, D. 2538. — Me. 3638, 3729, 3735. — H. 3769, 3870, 3871.  
*Equisetum* — Sp. 3150. — Mc. 3664. — H. 4081. — P. 1454, Py. 2011.  
*Equus* — D. 2628, 2629. — O. 2735. — H. 3800, 3927.  
*Eragrostis* — Hy. 1056.  
*Eremurus* — Hy. 1129.  
*Erianthus* — Py. 2065.  
*Erica*. — Py. 1877. — D. 2616. — Sp. 3235. — H. 3929.  
*Eriobotrya* — Sp. 3159.  
*Eriocaulon* — Hy. 1535.  
*Eriocoma* — Hy. 1283.  
*Eriogonum* — Sp. 3456. — H. 4035.  
*Eriophorum* — D. 2480, 2533, 2607. — Sp. 3593. — H. 3899.  
*Eryngium* — Sp. 3020.  
*Erythrina* — Sp. 3058, 3158, 3560.  
*Erythroxylum* — Hy. 1280.  
*Escallonia* — Py. 2278.  
*Eucalyptus* — Ga. 1013. — Py. 1645, 1821, 1822, 2268, 2312, 2326. — Sp. 3426, 3577. — H. 3986, 4038, 4138.  
*Eudema* — L. 2827.  
*Eugenia* — Hy. 1339. — Py. 1495, 2272. — Sp. 3478, 3479.  
*Euglena* — P. 1447.  
*Eupatorium* — Py. 2376. — D. 2701.  
*Euphorbia* — Py. 1912, 2184, 2232. — Ga. 987. — Hy. 1038, 1039, 1040, 1062, 1123. — P. 1889. — D. 2451. — Sp. 3127, 3128, 3408. — H. 4029.  
*Euphrasia* — Sp. 3550.

- Eurya — Sp. 3480.  
 Evolvulus — Py. 1561.  
 Evonymus — Sp. 2971, 3063, 3356, 3402.  
     — Me. 3716.  
 Fagopyrum — Py. 1841. — H. 3885.  
 Fagus — Py. 1744, 1763, 1788, 1878,  
     1968, 1986, 2022, 2104. — D. 2582,  
     2707. — Sp. 3202, 3380, 3457. —  
     Mc. 3712.  
 Falagria — L. 2756, 2757, 2785.  
 Festuca — Hy. 1116, 1160. — Py. 2397.  
 Ficaria — D. 2475.  
 Ficus — Hy. 1263, 1295. — Py. 2294,  
     2295. — Sp. 2997, 3081, 3082.  
 Filices — Py. 2343, 2368, 2563. — P.  
     1410.  
 Foeniculum — Py. 1481.  
 Fomes — Py. 1840.  
 Formica — Py. 2250, 2251.  
 Forsythia — Sp. 2982.  
 Fragaria — D. 2566. — Sp. 3106. —  
     H. 3801.  
 Frankenia — Hy. 1281.  
 Fraxera — Me. 3704. — H. 3893.  
 Fraxinus — Py. 1679, 1739, 1760, 1763,  
     1895, 1972, 2029, 2034, 2036, 2090,  
     2104, 2113, 2140, 2145, 2146, 2147,  
     2363, 2364. — D. 2598, 2704. — Sp.  
     3170, 3223, 3266, 3282, 3335, 3514,  
     3566, 3601. — H. 3834, 3944, 3988,  
     4155.  
 Fuchsia — Ph. 2734. — Sp. 3059.  
 Galax — Py. 1499, 1523.  
 Galeobdolon — Py. 1850.  
 Galeopsis — D. 2664.  
 Galerita — L. 2808, 2811, 2817, 2820.  
 Galium — Py. 1770, 2170. — D. 2540,  
     2601. — Sp. 3437. — Mc. 3622. —  
     H. 4016, 4034.  
 Galliardia — Sp. 3502.  
 Gallina — My. 2889.  
 Ganoderma — Py. 2229.  
 Gardenia — Py. 2259.  
 Garrya — Sp. 3060, 3526. H. 4121.  
 Gaultheria — Py. 1500. D. 2527, 2568.  
 Gaura — Hy. 1232. — Py. 2058.  
 Gelsemium — Py. 1610. — Sp. 2991.  
 Genista — Py. 2123. — D. 2546. —  
     Sp. 3330. — Me. 3725.  
 Gentiana — Hy. 1035. — Py. 1755,  
     1874. — Sp. 3039.  
 Gerardia — Sp. 3599. — H. 4025.  
 Geranium — Hy. 1075. — P. 1432. —  
     M. 2921. H. 3891.  
 Geum — Hy. 1178, 1314. — D. 2702.  
 Giraffa — D. 2435.  
 Glaucium — Hy. 1345. — Sp. 3093,  
     3195.  
 Gleditschia — Sp. 3450. — H. 3855,  
     3971.  
 Glenodinium — P. 1427, 1443.  
 Glumaceæ — Sp. 3596.  
 Glycine — H. 4006.  
 Glycyrrhiza — Sp. 3014.  
 Glyceria — Py. 2127. — Sp. 3149, 3447.  
     — Me. 3767.  
 Gnaphalium — Hy. 1037.  
 Gonolobus — P. 1398.  
 Goodia — Py. 1801.  
 Goodyera — Hy. 1301.  
 Gossypium — Hy. 1282, 1352. — Py.  
     1605, 1791, 1797. — D. 2723. — H.  
     3817.  
 Graminaceæ — Hy. 1162. — P. 1462.  
     — Py. 1531, 1701, 1712, 2010, 2103,  
     2175, 2255, 2304, 2308. — H. 3997,  
     4102, 4163.  
 Gunnera — H. 3828.  
 Gutierrezia — Hy. 1095.  
 Gymnandra — Hy. 1111.  
 Gynoxis — Hy. 1177. — Py. 1522, 1768.  
     — D. 2685.  
 Gyrinus — L. 2813.  
 Halesia — Sp. 3206, 3246. — Py. 1899,  
     1900.  
 Hamamelis — D. 2597.  
 Hedera — Py. 2097, 2233, 2348. — Sp.  
     3201, 3578.  
 Helianthemum — Sp. 3098. — H. 3858.  
 Helianthus — P. 1476. — Py. 2057,  
     2117. — D. 2541. — Sp. 3387.

- Hellocarpus* — P. 1390.  
*Heliotropium* — Hy. 1256.  
*Helleborus* — Py. 1295. — Sp. 3008.  
     — H. 3861.  
*Helosciadium* — Me. 2755.  
*Hemizonia* — Hy. 1096,  
*Hepatica* — Sp. 3005.  
*Heracleum* — Me. 3754.  
*Heteromeles* — H. 3933.  
*Hibiscus* — Py. 2171. — Sp. 3280, 3547.  
     — Hy. 1230.  
*Hieracium* — Hy. 1240. — Sp. 3119.  
*Hyppophae* — Py. 1971.  
*Hippuris* — P. 1467.  
*Holcus* — Hy. 1160, 3849.  
*Homalanthus* — Sp. 3181.  
*Homocercus* — H. 3796.  
*Homogyne* — D. 2543.  
*Hordeum* — Hy. 1052, 1322, 1323, —  
     Sp. 3179. — H. 3782, 3950, 4165.  
*Hovea* — Py. 1493.  
*Humulus* — Me. 3629.  
*Hustonia* — Hy. 1254.  
*Hyæna* — P. 1366.  
*Hyalotheca* — P. 1451,  
*Hydrangea* — Sp. 3068, 3263.  
*Hydrocymbus* — L. 2856.  
*Hydrocotyle* — Hy. 1082.  
*Hydrophyllum* — P. 1392.  
*Hydroporus* — L. 2779, 2781, 2783,  
     2781.  
*Hypnum* — D. 2405.  
*Hypoxylon* — H. 3852, 4110.  
*Hyptis* — Py. 2180.  
  
*Ichnocarpus* — Hy. 1294.  
*Ilex* — Py. 1494, 1518, 1536, 1542, 1750,  
     1892, 2073, 2274, 2348. — D. 2638,  
     2694. — Sp. 3238, 2874.  
*Impatiens* — P. 1393.  
*Indigofera* — Hy. 1203.  
*Inga* — Py. 1596, 2242.  
*Inocarpus* — D. 2490.  
*Inula* — Sp. 3118, 3590.  
*Ipomœa* — Hy. 1286. — Py. 2202. —  
     Sp. 3283, 3562.  
*Iris* — Hy, 1299. — P. 1461. — Py.

- 1773, 1837. — Sp. 3045, 3136, 3178,  
 3529. — H. 4076.  
*Isaria* — P. 1409. — H. 3938.  
*Isopyrum* — H. 3999  
  
*Jacquemontia* — Hy. 1287.  
*Jasione* — D. 2544.  
*Jasminum* — P. 1474, 1571. — Sp.  
     2983, 2984, 3551.  
*Juglans* — P. 1370. — Py. 1905. —  
     Sp. 3079, 3197, 3287, 3312, 3343, 3344,  
     3394, 3442, 3579, 3580.  
*Juncus* — Hy. 1051, 1142, 1302, 1331,  
     — Py. 1919, 1992. — D. 2484, 2531,  
     2562, 2574, 2578. — Sp. 3421. — H.  
     4077.  
*Juniperus* — Hy. 1173. — Py. 1664,  
     1826, 1845, 1872, 1916, 1989, 2225,  
     2395. — D. 2655. — Sp. 3347, 3615.  
     — Me. 3740. — H. 4061, 4125.  
  
*Kalmia* — Sp. 2987, 2988, 3516.  
*Kochia* — Hy. 1125.  
*Kretschmaria* — Py. 2205.  
*Krigia* — Py. 1803.  
*Kundmannia* — Hy. 1235.  
  
*Labiata* — Py. 1524, 2208.  
*Laccophilum* — L. 2774, 2775, 2776,  
     2777, 2778, 2779, 2780, 2781, 2782,  
     2783, 2784.  
*Lactuca* — Py. 1620, 1911. — Sp. 3505,  
     3548. — Me. 3758.  
*Laminaria* — Py. 2317.  
*Lantana* — Py. 1779.  
*Larix* — Py. 2369. — D. 2520, 2610.  
*Laserpitium* — D. 2539. — Sp. 3556,  
     3491.  
*Lasiocorys* — Hy. 1034.  
*Lastrea* — Py. 1830.  
*Lathrobium* — L. 2788, 2790, 2791  
     2792, 2844, 2849, 2850, 2864.  
*Lauraceæ* — Py. 1562. — H. 3902, 3903  
*Laurus* — Py. 1654. — D. 2692. — Sp.  
     2974, 3261. — H. 4084.  
*Lavatera* — Py. 1746.  
*Ledum* — Sp. 2989.

- Leguminosæ — Hy. 1203, 1344. — Py. 1583, 1587. — H. 3819.  
 Lemna. — Hy. 1355.  
 Leo — P. 1366.  
 Lepachis — Sp. 3569.  
 Lepidium — P. 1400. — Sp. 3499.  
 Lepidosperma — Py. 1685.  
 Lepus — D. 2619.  
 Lespedeza — Sp. 3468.  
 Leucæna — H. 3973.  
 Leucothoë — D. 2697.  
 Liana — Py. 2188.  
 Lichenes — Hy. 2884, 2885, 2888, 2890.  
 Ligustrum — Py. 2056, 2099. — Sp. 3297, 3336, 3386, 3389. — Me. 3643.  
 Lilium — Py. 1990. — Sp. 3046.  
 Liliacæ — P. 1374.  
 Lindera — D. 2701. — Sp. 2975.  
 Linnæa — Sp. 3515.  
 Liquidambar — Sp. 3170.  
 Liriodendron — Py. 2148. — M. 2933.  
 — Sp. 2963, 3050, 3213, 3431, 3432. — H. 3904, 3980.  
 Lithonephrya — P. 1472.  
 Lithospermum — D. 2592.  
 Litsæa — Hy. 1265. — Py. 1756.  
 Livistona — Sp. 3420.  
 Lobelia — Sp. 3512.  
 Lolium — Hy. 1160. — Me. 3661. — H. 4166.  
 Lonchocarpus — Hy. 1196.  
 Lonicera — Hy. 1116. — Py. 1689, 2054, 2062. — D. 2430. — Sp. 2979, 3189.  
 Lorantheacæ — Py. 2314.  
 Loranthus — Py. 1590.  
 Lotus — Hy. 1022. — D. 2538. — H. 3841.  
 Ludwigia — Hy. 1233. — Sp. 3017.  
 Lunaria — Sp. 3465.  
 Lupinus — Hy. 1225. — Sp. 3016. — Me. 3737, 3749.  
 Luziola — Py. 2248.  
 Luzula — Hy. 1328, 1329. — Py. 2302. — D. 2668.  
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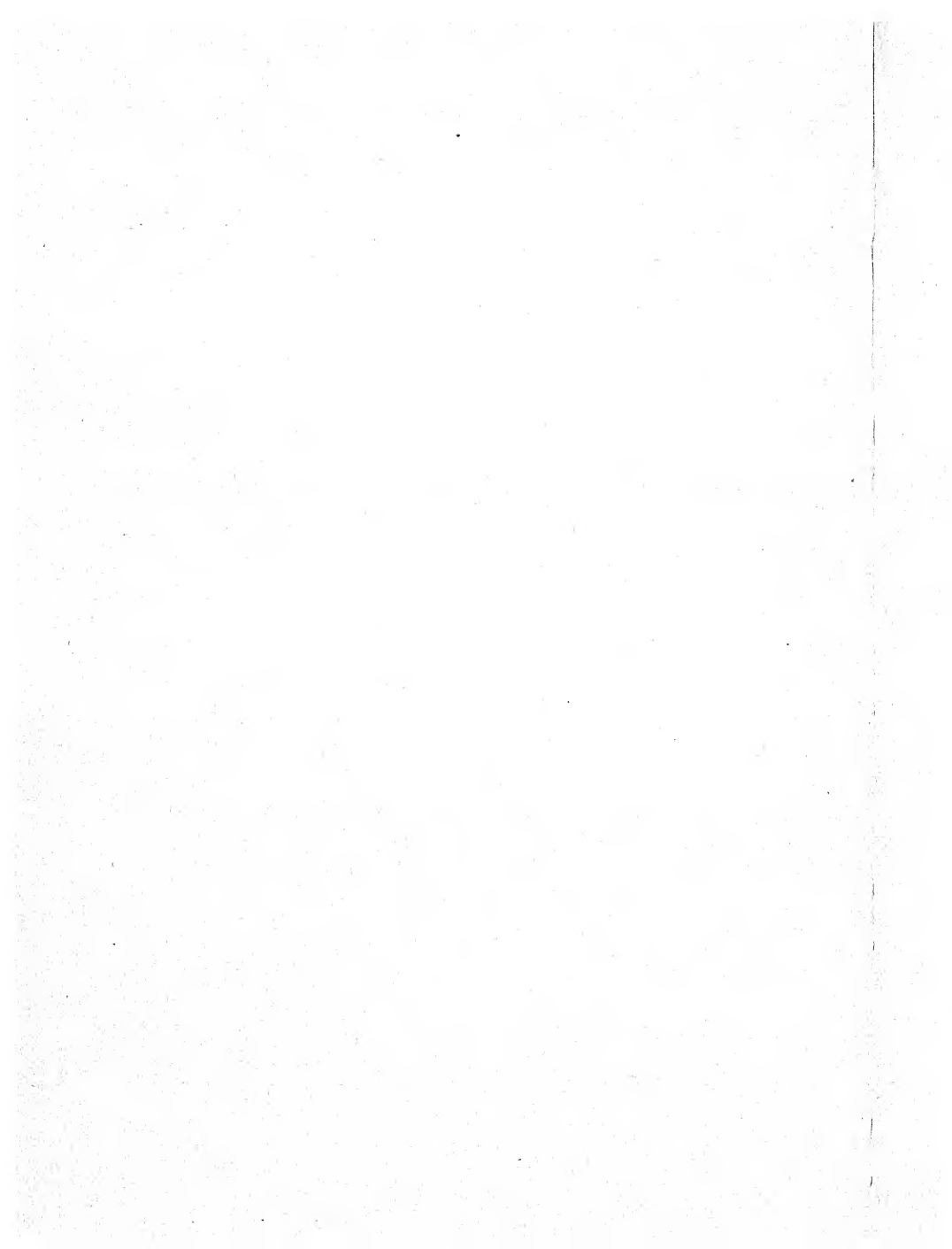
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*Potentilla* — Hy. 1179, 1180, 1181. — Py. 2017, 2164. — D. 2691.  
*Poterium* — Sp. 3107.  
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*Prosopis* — Hy. 1026, 1197, 1201. — Py. 2386.  
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*Psidium* — Py. 1560. — Me. 3741.  
*Psoralea* — Sp. 3326, 3379. — H. 3873.  
*Psycotria* — Py. 1544.  
*Pteris* — D. 2722. — Py. 2318. — Hy. 1305. — H. 4169. — Sp. 3377.  
*Pteropsophus* — L. 2828.  
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*Randia* — Sp. 3196.  
*Ranunculus* — Hy. 1066, 1350. — P. 1463.  
*Raphanus* — Py. 1908. — Sp. 3096, 3097. — H. 4000. — Hy. 1183, 1222. — Py. 1860, 2071, 2115, 2163.  
*Redfieldia* — Hy. 1151.  
*Reseda* — Sp. 3208.  
*Retinodendron* — Py. 1528.  
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*Rhamnus* — Hy. 1160, 1186. — Py. 1855. — Sp. 3452.  
*Rhapis* — Sp. 3135.  
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*Rhexia* — Me. 3677.  
*Rhododendron* — Py. 1839, 2156, 2226. — D. 2477. — Sp. 3410, 3517. — Me. 3644. — H. 3991.  
*Rhus* — Hy. 1030, 1313. — Py. 1541, 1725, 2042, 2143, 2239, 2273. — D. 2558. — Sp. 2965, 2966, 3156, 3278, 3484, 3542. — Me. 3718, 3726, 3751. — H. 3985.  
*Rhynchosia* — Py. 1533.  
*Rhynchospora* — Hy. 1048, 1327, 1336.  
*Ribes* — P. 1374. — Py. 1624, 1969, 1983, 2324, 2336. — Sp. 3069, 3222, 3400, 3401, 3485, 3541, 3586. — Me. 3630, 3700, 3701, 3738. — H. 4011.  
*Ricinus* — Py. 1771.

- Robinia — Py. 2070, 2142. — Sp. 3209, 3242, 3333. — H. 3918.  
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 Rumex — Hy. 1124. — Py. 1980. — D. 2497. — Sp. 3390, 3519, 3520, 3591. — H. 4036.  
 Ruta — Py. 1799. — Sp. 3321.  
 Rutaceæ — Py. 1543, 2340.  
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*Staphylea* — Py. 1888, 1894, 1957. — Sp. 3404, 3573.  
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*Tilia* — Py. 1765, 1965, 1967, 1970. — D. 2523. — S. 2882. — M. 2958. — Sp. 3052, 3239, 3245, 3279, 3428, 3600. — H. 3793, 4187, 4189.  
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# INDEX UNIVERSALIS

COHORTIUM, FAMILIARUM, SUBFAMILIARUM, GENERUM, SUBGENE-  
RUM ATQUE SYNONYMORUM PRÆCIPUORUM IN TOTO OPERE  
(VOL. I-XI) EXPOSITURUM \*).

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Genera recepta litteris crassis impressa sunt.

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\*) Plurima adsunt generum atque subgenerum synonyma, quæ in hoc indice universali desiderantur, licet suis textus locis memorata; sed hæc nomina, jam antiqua, justis causis omnino obsoleverunt; nonnulla quoque mera mycelia aut formas plantarum abnormes designant. Ad quæ genera hodierna hæc synonyma spectent facili negotio eruitur si nomina eorum specierum (apud STREINZII, HOFFMANNI et PFEIFFERI «Nomenclatores» invenienda) in indicibus meis inquirantur. Exempli gratia, ubi scire velis quid sit gen. *Achitonium* (in meo indice universali prætermissum) cfr. STREINZII «Nomencl. fung.» in quo, quum invenias *Achitonium acicolam*, facillime ex vol. IV. Sylloges (p. 673 et 769) videbis *Achitonium* esse synonymon *Pactiæ*.



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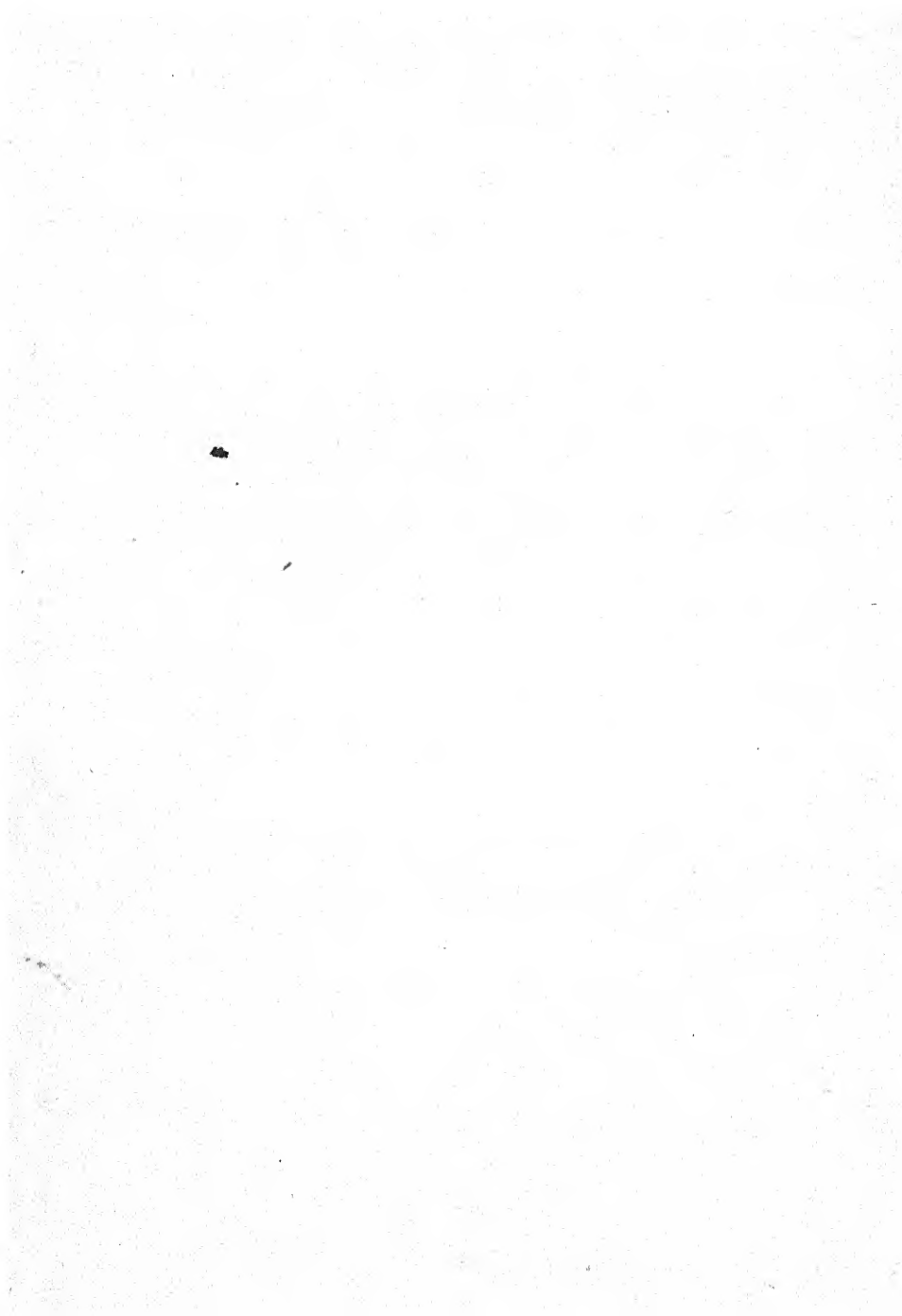
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# SYLLOGE FUNGORUM

OMNIUM HUCUSQUE COGNITORUM

DIGESSIT

P. A. SACCARDO

## APPENDIX

sistens

Elenchum fungorum novorum qui post editum vol. XI Sylloges  
usque ad finem Decembris MDCCCXCV innotuerunt

### Summa fungorum hucusque cognitorum.

Species in vol. I-XI Sylloges descriptæ . . . . .	42.383
Species in hoc Elencho enumeratæ . . . . .	1.252
Species fungorum ad finem anni MDCCCXCV cognitæ . . . . .	43.635

DRESDÆ - MDCCCXCVI

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# Repertorium für kryptogamische Literatur

Beiblatt zur „Hedwigia“.

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## Elenchus fungorum novorum qui post editum vol. XI „Sylloges fungorum“ usque ad finem Decembris MDCCCXCV innotuerunt\*) concessit

P. A. Saccardo.

### Hymenomyceteae.

Sacc. Syll. V p. 3, IX p. 1, XI p. 1.

#### Fam. 1. Agaricaceae Fr.

##### Sect. 1. Leucosporae.

- Amanita lutea* Otth in Trog. Bern. Mittheil. 1857. p. 27. Ad terram in Brengartenwald, Helvetia. 1.
- *Forrestiae* Kalchbr. ap. Mc. Alp. Syst. Arr. Austr. Fungi p. 30. Ad terram in Australia occident.
- Amanitopsis villosa* Peck in Bull. Torr. Cl. 1895. p. 485. Sub Quercubus, California.
- Lepiota imbricata* P. Henn. Hedw. 1895. p. 333. Ad terram in Erythraea, Africa.
- *aureo-violacea* P. Henn. Fungi camer. I. p. 107. In truncis putridis, Kamerun. 5.
- *camerunensis* P. Henn. Fungi camer. I. p. 107. Ad terram, Kamerun.
- *fulvodisca* Peck in Torr. bot. Cl. 1895. p. 198. Ad terram Pasadena, California.
- *tepidaria* Otth in Trog. Bern. Mittheil. 1857. p. 27. In tepidariis horti bot., Bern, Helvetia.
- *vestita* Otth in Trog. Bern. Mittheil. 1857. p. 28. In sabulosis pr. Heimbergbrücke, Helvetia.
- *exannulata* Otth Bern. Mittheil. 1870. p. 89. (Agaricus). In graminosis Helvetiae. 10.
- *megalotheles* Kalchbr. apud Mc. Alp. Arrang. Austr. Fungi p. 30. Ad ripas fluviorum, Queensland, Australiae.
- *minuta* Voglino Bull. Soc. bot. Ital. 1896. p. 41. Ad terram incultam in M. Generoso, Helvetiae.
- Armillaria roborosa* Britz. Hymenomyceten-Kunde I. p. 1 fig. 658. In silvis coniferis in Bavaria.

\*) Adduntur fungi nonnulli minus recentes sed in voluminibus „Sylloges fungorum“ casu practermissi. Notandae praesertim species a beato Otth multis abhinc annis in „Mittheil. Bern.“ descriptae sed mycologis hodiernis omnino ignotae (cfr. Syll. XI p. 314, nota), quarum certe multae nominibus aliis insciantur a mycographis recentioribus editae sunt, sed quae jure merito revisioni sub-

- Armillaria subimperialis* Britz. Hymen. Kunde I. p. fig. 138, 469. In silvis Bavariae.
- *mellea* Vahl. var. *camerunensis* P. Henn. F. camerun. I. p. 107. Ad truncos putres, Kamerun. 1
- (*Armillariella*) *distans* Pat. Bull. Soc. mycol. 1895. p. 85. Gregatim ad truncos emortuos, Congo.
- Tricholoma lentum* Post in Romell F. nov. v. crit. p. 65. Ad acus putrescentes *Abietis excelsae* in Suecia.
- *semivestitum* Peck Bull. Torr. Bot. Cl. 1895. p. 185. In pascuis, arenosis ad radices graminum, Kansas Amer. bor.
- *sanguineo-album* Britz. Hymen. Kunde I. p. 1 fig. 662. Ad sepes in Bavaria.
- *angustifolium* Britz. Hymen. Kunde I. p. 1 fig. 665. In silvis pineis in Bavaria. 20
- *convexo-planum* Britz. Hymen. Kunde I. p. 2 fig. 666. In silvis coniferis in Bavariae.
- *cremeo-griseum* Britz. Hymen. Kunde I. p. 2 fig. 670. In silvis Bavariae.
- *carneo-flavidum* Kalchbr. ap. Mc. Alp. Arrang. Austral. Fungi p. 30. Ad terram in Australia occidentali.
- *plagiotum* Kalchbr. ap. Mc. Alp. Arrang. Austral. Fungi p. 30. Ad terram in Australia occidentali.
- *turbinipes* Kalchbr. ap. Mc. Alp. Arrang. Austral. Fungi p. 30. Ad terram in Australia occidentali. 25.
- Clitocybe ceraceo-lamellata* Britz. Hymen. Kunde I. p. 2 fig. 672. In silvis pineis Bavariae.
- *fusco-alutacea* Britz. Hymen. Kunde I. p. 2 fig. 676. In silvulis Bavariae.
- *subflexuosa* Britz. Hymen. Kunde I. p. 3 fig. 683. In silvis montanis Bavariae.
- *pusilla* Peck in Torr. bot. Cl. 1895. p. 199. Ad terram Pasadena, California.
- *rhodoleuca* Romell Fungi nov. v. crit. p. 66. Ad acus *Abietis excelsae* in Suecia. 30.
- *umbrina* Otth Bern. Mittheil. 1870. p. 89 (*Agaricus*). In arenosis Helvetiae.
- Collybia terpenina* Otth in Trog. Bern. Mittheil. 1857. p. 29. Ad Bantigerhubel pr. Bern, Helvetia.
- *microspora* Peck Bull. Torr. bot. Cl. 1895. p. 486. Ad terram umbrosam, Kansas Amer. bor.
- *Zenkeri* P. Henn. Fungi camer. I. p. 106. Ad truncos putres, Kamerun.
- *arborescens* P. Henn. Fungi camer. I. p. 106. Ad terram graminosam, Kamerun. 35.
- *albo-grisea* Peck in Torr. bot. Cl. 1895. p. 199. Ad terram Pasadena, California.
- *nivosula* Berk. ap. Cooke Handb. Austral. p. 21. Hab. ad ramos putres Victoria, Australiae.
- Mycena ventricosus-lamellata* Britz. Hymen. Kunde I. p. 3 fig. 692. In muscosis silvaticis Bavariae.
- *modestissima* Britz. Hymen. Kunde I. p. 3. fig. 377. (*Ag. modestus*). In muscosis silvarum Bavariae.
- *griseo-fulva* Britz. Hymen. Kunde I. p. 4 fig. 697. In silvulis Bavariae. 40.
- *caesia* Peck Bull. Torr. bot. Cl. 1895. p. 486. Ad *Sphagna*, Newfoundland.
- *fusco-umbonata* Britz. Hymen. Kunde I. p. 4 fig. 698. In muscosis ad truncos *populeos* in Bavaria.
- *pura* Pers. — var. *gracilentia* P. Henn. Pilze Ostaf. p. 60. In silvulis udis in Africa tropica.
- *elegantula* Peck in Torr. bot. Cl. 1895. p. 199. Ad terram Pasadena, California.
- Omphalia subintegrella* P. Henn. Fungi camer. I. p. 105. Ad caudices putres Calami, Kamerun. 45.
- *squalido-fusca* Britz. Hymen. Kunde I. p. 4 fig. 704. In silvis pineis Bavaria.

- Omphalia n'dianensis* P. Henn. Fungi camer. I. p. 105. Ad folia putrida, N'dian Kamerun.
- *Staudtii* P. Henn. Fungi camer. I. p. 105. Ad folia putrida, Kamerun.
- *campestris* Romell Fungi nov. v. crit. p. 69. In collibus muscoso-graminosis Succiae.
- *pectinata* Romell Fungi nov. v. crit. p. 68. In silvis coniferis in Suecia. 50.
- *semivestipes* Peck Torr. bot. Cl. 1895. p. 200. In lignis putridis, Newfoundland.
- *pichinchensis* Pat. Bull. Soc. mycol. 1895. p. 205. Ad terram in Aequatoria.
- *nigripes* Pat. Bull. Soc. mycol. 1895. p. 205. Ad terram in Aequatoria.
- Pleurotus Fraxini* Otth Bern. Mittheil. 1870. p. 90. (Agaricus). Ad truncum vetustum Fraxini in Helvetia.
- *Tiliae* Otth Bern. Mittheil. 1870. p. 90. (Agaricus). In trunco cavo Tiliae in Helvetia. 55.
- *properatus* C. Mart. Contr. mycol. genev. p. 177. Ad caudices arborum frondosarum in Helvetia.
- *submitis* P. Henn. Fungi camer. I. p. 104. Ad truncos putres, Kamerun.
- *phalliger* Pat. Bull. Soc. mycol. 1895. p. 206. Ad truncos Euphorbiae in Aequatoria.
- *euphyllus* Berk. in Handb. N. Z. p. 755, Cooke Handb. Austr. p. 37. Ad ligna in Nova Zelandia et Queensland, Australiae.
- *lignatilis* Fries — var. *asper* Voglino Bull. Soc. bot. Ital. 1896. p. 42. Ad ligna in silvaticis, Canton Ticino, Helvetia. 60.
- Hygrophorus nigridius* Peck Bull. Torr. bot. Cl. 1895. p. 211. Ad terram Prince Edward's Island Amer. bor.
- *ericeti* Britz. Hymen. Kunde I. p. 12. fig. 107. In ericetis Bavariae.
- *parvipes* Britz. Hymen. Kunde I. p. 12. fig. 108. In silvaticis in Bavaria.
- *flavellus* Britz. Hymen. Kunde I. p. 12. fig. 111. In silvaticis in Bavaria.
- *sphaerosporus* Peck Bull. Torr. bot. Cl. 1895. p. 486. Ad terram Jowa Amer. bor. 65.
- *kilimandscharicus* P. Henn. Pilze Ostaf. p. 59. Ad terram scissam in Africa tropica.
- *elegantulus* Peck Torr. bot. Cl. 1895. p. 200. Ad terram Maryland.
- *albus* Otth in Trog. Bern. Mittheil. 1857. p. 36. Ad vias in Bremgartenwald, Helvetia.
- *hyporrhodius* Otth in Trog. Bern. Mitth. 1857. p. 35. In Bremgartenwald, Helvetia.
- *alutaceo-rubens* Otth in Trog. Bern. Mitth. 1857. p. 35. In Bremgartenwald, Helvetia. 70.
- Lactarius albo-carneus* Britz. Hymen. Kunde I. p. 13. fig. 73. In silvaticis Bavariae.
- *sanguifluus* Fr. var. *yvreus* C. Mart. Contr. mycol. genev. p. 184. Sub Pinibus in silva Yvre Helvetiae.
- Russula intermedia* Karst. Hedw. 1895. p. 7. In betuletis, Tammela Fenniae. Acris; pileus fulvus, disco rubro-fulvo, 9—11 cm lat.; stipes albus 7 cm alt., 2—3 cm. crass.
- *cerasina* C. Mart. Contr. mycol. genev. p. 187. In silvis Helvetiae.
- *luteo-viridans* C. Mart. Contr. mycol. genev. p. 187. In graminosis Helvetiae. 75.
- *luteolo-alba* Britz. Hymen. Kunde I. p. 13. fig. 121. In silvaticis Bavariae.
- Cantharellus parvus* Otth in Trog. Bern. Mittheil. 1857. p. 36. In Bremgartenwald, Helvetia.
- Arrhenia cupuliformis* P. Henn. Fungi camer. I. p. 96. Ad truncos putres, Kamerun.
- Campanella* P. Henn. Fung. camer. I. p. 95 (nov. gen.) Marasmio et Arrheniae affinis; sed hymenium subreticulatum, inferum venis et costis anastomosantibus. Sporae pallidae subglobosae; basidia clavata.

- Campanella Büttneri* P. Henn. Fungi camer. I. p. 95. Ad ligna putrescentia, Kamerun. 80.
- Marasmius Englerianus* P. Henn. Pilze Ostaf. p. 59. In truncis arborum in Africa tropica.
- *Volkensii* P. Henn. Pilze Ostaf. p. 59. Ad terram udam graminosam in Africa tropica.
- *maranguensis* P. Henn. Pilze Ostaf. p. 59. Ad terram hortorum in Africa tropica.
- *subtomentosus* Peck Bull. Torr. bot. Cl. 1895. p. 487. Ad radices graminum in sabulosis, Kansas Amer. bor.
- *badius* Peck Bull. Torr. bot. Cl. 1895. p. 287. Ad frustula uda dejecta, Kansas Amer. bor. 85.
- *minutulus* P. Henn. Fungi camer. I. p. 100. Ad ramos putres, Kamerun.
- *barombiensis* P. Henn. Fungi camer. I. p. 99. Ad truncos putrescentes, Barombi Kamerun.
- *rufo-brunneus* P. Henn. Fungi camer. I. p. 99. Ad folia putrida, Kamerun.
- *favoloides* P. Henn. Fungi camer. I. p. 99. Ad folia putrida, Kamerun.
- *atro-albus* P. Henn. Fungi camer. I. p. 98. Ad ligna putrida, Kamerun. 90.
- *Zenkeri* P. Henn. Fungi camer. I. p. 98. Ad ligna et folia putrescentia, gregatim, Kamerun.
- *discoideus* P. Henn. Fungi camer. I. p. 96. Inter folia putrescentia in silvis Kamerun.
- *discipes* P. Henn. Fungi camer. I. p. 101. In caudicibus putridis, Kamerun.
- *excentricus* P. Henn. Fungi camer. I. p. 101. Ad truncos putres, Kamerun.
- *paradoxus* P. Henn. Fungi camer. I. p. 101. Ad ramos putres, Kamerun. 95.
- *Dusenii* P. Henn. Fungi camer. I. p. 100. Ad petiolos et alia fragmenta vegetabilia, Kamerun.
- *conico-papillatus* P. Henn. Fungi camer. I. p. 100. Ad folia putrida, Kamerun.
- *Friesianus* P. Henn. Fungi camer. I. p. 100. Ad truncos putres, Kamerun.
- *roseolus* P. Henn. Fungi camer. I. p. 98. Ad ligna putrescentia, gregatim, Kamerun.
- *Hungo* P. Henn. Fungi camer. I. p. 98. Ad ligna putrida, Kamerun. 100.
- *Cyathula* P. Henn. Fungi camer. I. p. 96. Ad folia putrescentia in silvis, Kamerun.
- *palmicola* P. Henn. Fungi camer. I. p. 102. Ad caudices putridos, Kamerun.
- *subrhodocephalus* P. Henn. Fungi camer. I. p. 97. Ad ligna putrida, Kamerun.
- *Staudtii* P. Henn. Fungi camer. I. p. 97. In silvis Kamerun.
- *affacioides* P. Henn. Fungi camer. I. p. 97. Ad folia putrescentia, Kamerun. 105.
- *citrinus* P. Henn. Fungi camer. I. p. 96. Ad ramos putrescentes in silvis Kamerun.
- *melanopus* Morg. New N. Amer. Fungi 1895. p. 36. tab. I. fig. 2. In foliis vetustis insititius, Ohio Amer. bor.
- (*Crinipellis*) *congoanus* Pat. Bull. Soc. mycol 1895. p. 85. Ad ramos emortuos, Congo.
- Lentinus crateriformis* P. Henn. Fungi camer. I. p. 95. Ad ramos putres, Kamerun.
- *Dybowskii* Pat. Bull. Soc. mycol. 1895. p. 85. Ad fragmenta lignea dejecta, Congo. 110.
- *discopus* Pat. Bull. Soc. mycol 1895. p. 86. Ad truncos putres, Congo.
- Panus papillatus* P. Henn. Fungi camer. I. p. 95. Ad ramos putres, Kamerun.
- *angustatus* Berk. in Cooke Handb. Austral. p. 98. Ad ramos putres, Queensland, Australiae.



- Xerotus Drummondii* Berk. ap. Cooke Handb. Austral. p. 100. Ad ramos emortuos Victoria, Australiae.
- *fulvus* Berk. et Br. ap. Cooke Handb. Austral. p. 100. Ad ligna Queensland, Australiae. 115.
- Schizophyllum Egelingianum* Ell. et Ev. Bull. Torr. Cl. 1895 p. 439. In trunco Magnoliae mexicanae, Mexico.
- Lentodium* Morg. New N. Amer. Fungi, 1895. p. 36. (Nov. gen.) Habitus Lentini tigrini sed hymenium poroso-cellulosum, velo tandem radiatim dehiscente tectum; sporae ovoideae, hyalinae. — Ab auctore locatur prope Lentinum, sed ob hymenium potius ad Polyporeas spectat.
- *squamulosum* Morg. l. c. tab. I. fig. 3. Ad truncos et ramos emortuos, Ohio Amer. bor.

### Sect. 2. Rhodosporae.

- Volvaria arenaria* Otth in Trog. Bern. Mittheil. 1857. p. 31. In sabulosis pr. Heimbergbrücke, Helvetia.
- *fragilis* Otth in Trog. Bern. Mittheil. 1857. p. 31. In graminosis ad Bremgartenwald, Helvetia. 120.
- *striatula* Peck Bull. Torr. bot. Cl. 1895. p. 487. Ad terram uliginosam, Kansas Amer. bor.
- Pluteus stercorarius* Peck Bull. Torr. bot. Cl. 1895. p. 488. In fimetis Kansas Amer. bor.
- *aurantio-rugosus* Trog. in Bern. Mittheil. 1857. p. 32. Ad truncos populinos ad Zug Helvetiae (Otth).
- *curtus* Karst. Hedw. 1895. p. 7. In muscosis udis pr. Mustiala Fenniae.
- Entoloma griseo-olivascens* Britz. Hymen. Kunde p. 5. fig. 179. In paludosis Bavaria. 125.
- *ferruginans* Peck Torr. bot. Cl. 1895. p. 200. Ad terram Pasadena, California.
- Clitopilus togoënsis* P. Henn. Fungi camer. I. p. 103. Ad terram, Togo.
- Leptonia viridula* P. Henn. Fungi camer. I. p. 104. Ad truncos putres, Kamerun.
- *edulis* Peck Torr. bot. Cl. 1895. p. 201. Ad terram Pasadena, California.
- Ecclia camerunensis* P. Henn. Fungi camer. I. p. 104. Ad truncos et ramos, Kamerun. 130.
- *Zenkeri* P. Henn. Fungi camer. I. p. 104. Ad ramos putres dejectos, Kamerun.
- *nigricans* Peck Torr. bot. Cl. 1895. p. 201. Ad terram Pasadena, California.
- Claudopus camerunensis* P. Henn. Fungi camer. I. p. 103. Ad ramos siccos, Kamerun.

### Sect. 3. Ochrospora.

- Pholiota aurantio ferruginea* Britz. Hymen. Kunde I. p. 5 fig. 422. Ad truncorum basim in Bavaria.
- *anomala* Peck Torr. bot. Cl. 1895. p. 202. Pasadena California. 135.
- *subconica* Otth Bern. Mittheil. 1870. p. 91 (Agaricus). In graminosis ad vias Helvetia.
- *violacea* Voglino Bull. Soc. bot. Ital. 1896. p. 42. Ad terram graminosam in M. Generoso Helvetiae.
- Inocybe radiata* Peck Bull. Torr. bot. Cl. 1895. p. 488. Ad terram graminosam Amer. bor.
- *oblongispora* Britz. Hymen. Kunde I. p. 5. fig. 424. In silvis Bavariae.
- *cucullata* C. Mart. Contr. mycol. genev. p. 179. In graminosis Helvetiae. 140.
- *Tricholoma* Alb. et Schw. var. *vinosa* Vogl. Bull. Soc. bot. Ital. 1896. p. 43 In silvis montanis, Canton Ticino, Helvetiae.

- Hebeloma albido-cortinatum* Britz. Hymen. Kunde I. p. 6. fig. 428. In silvaticis Bavariae.
- *fusiformi-radicatum* Britz. Hymen. Kunde I. p. 6. fig. 429. In silvaticis Bavariae.
- *foedatum* Peck Torr. bot. Cl. 1895. p. 202. Ad terram Pasadena California.
- *violascens* Otth in Trog. Bern. Mittheil. 1857. p. 33. Prope Bern, Helvetia. 145.
- *rubrum* Otth in Trog. Bern. Mittheil. 1857. p. 33. Prope Bern, Helvetia in graminosis.
- *horticola* Otth Bern. Mittheil. 1870. p. 91 (Agaricus). In terra hortorum in Helvetia.
- *Kirtoni* Kalchbr. ap. Mc. Alpine Arrang. Austr. Fungi p. 32. Ad terram N. S. Wales, Australiae.
- Flammula subsapinea* P. Henn. Fungi camer. I. p. 102. Ad truncos putres, Kamerun.
- *decurrens* Peck Bull. Torr. bot. Cl. 1895. p. 489. Ad terram udam umbrosam, Kansas Amer. bor. 150.
- *anomala* Peck Torr. bot. Cl. 1895. p. 202. Ad terram, Pennsylvania.
- Naucoria fulvida* Britz. Hymen. Kunde I. p. 7. fig. 435. In silvaticis Bavariae.
- *scabrispora* Britz. Hymen. Kunde I. p. 7. fig. 437. In silvaticis Bavariae.
- *populicola* Britz. Hymen. Kunde I. p. 7. fig. 432. In truncis Populi in Bavaria.
- *Dusenii* P. Henn. Pilze Ostaf. p. 60. Ad truncos putres in Africa tropica. 155.
- *kilimandscharica* P. Henn. Pilze Ostaf. p. 60. Ad terram in Africa tropica.
- Pluteolus luteus* Peck Torr. bot. Cl. 1895. p. 203. Sub arboribus Pasadena California.
- Tubaria pallescens* Peck Torr. bot. Cl. 1895. p. 202. Ad folia et fragmenta lignea in umbris, Pasadena California.
- Crepidotus togoënsis* P. Henn. Fungi camer. I. p. 102. Ad ramos putridos, Togo.
- *echinosporus* P. Henn. Pilze Ostaf. p. 60. Ad ligna putrida in Africa tropica. 160.
- *cinabarinus* Peck Bull. Torr. bot. Cl. 1895. p. 489. Ad ligna dejecta, Michigan Amer. bor.
- Cortinarius virgatus* Peck Torr. bot. Cl. 1895. p. 203. Pasadena California.
- *odorifer* Britz. Hymen. Kunde I. p. 11 fig. 342. In silvaticis alpinis Bavariae.
- *griseo-illacinus* Britz. Hymen. Kunde I. p. 11 fig. 344. In silvaticis Bavariae.
- *subflexuosus* Britz. Hymen. Kunde I. p. 11 fig. 345. In silvaticis Bavariae. 165.
- *subluteolus* Britz. Hymen. Kunde I. p. 11 fig. 346. In silvaticis Bavariae.
- *fulvo-luteus* Britz. Hymen. Kunde I. p. 11 fig. 348. In silvaticis Bavariae.
- *perrarus* Britz. Hymen. Kunde I. p. 11 fig. 349. In silvaticis Bavariae.
- *floccoso-fibrillosus* Britz. Hymen. Kunde I. p. 11 fig. 350. In silvaticis Bavariae.
- *mellinus* Britz. Hymen. Kunde I. p. 11 fig. 351. In silvaticis Bavariae. 170.
- *definiendus* Britz. Hymen. Kunde I. p. 11 fig. 354. In silvaticis Bavariae.
- *dubitabilis* Britz. Hymen. Kunde I. p. 12 fig. 360. In silvaticis Bavariae.
- *truncigenus* Britz. Hymen. Kunde I. p. 10 fig. 335. In truncis putridis in Bavaria.
- *illacinopes* Britz. Hymen. Kunde I. p. 10 fig. 337. In silvaticis Bavariae.
- *cano-illacinus* Britz. Hymen. Kunde I. p. 10 fig. 340. In silvaticis Bavariae. 175.
- *erythraeus* Berk. Hook. Lond. Journ. 1845. p. 48, Cooke Handb. Austral. p. 72. Ad terram in silvis Victoriae Australiae.
- (*Myxadium*) *alpinus* Boud. Bull. Soc. bot. Fr. 1894. p. CCXLVI et Bull. Soc. myc. 1895. p. 27 tab. II fig. 1. In pascuis alpinis pr. hospitium Grand-Saint-Bernard.
- (*Phlegmacium*) *pelmatosporus* C. Mart. Contr. mycol. genev. p. 181. Sub Quercubus in Helvetia.

#### Sect. 4. Melanosporae.

- Agaricus Kiboga* P. Henn. Pilze Ostaf. p. 60 (Psalliota). Ad terram in Africa tropica.
- *californicus* Peck Torr. bot. Club 1895. p. 203. Sub Quercubus, Pasadena California. 180.

- Stropharia caesifolia* Peck Bull. Torr. bot. Cl. 1895. p. 489. In pascuis sabulosis, Kansas Amer. bor.
- *paradoxa* P. Henn. Myk. Not. I. (Bot. Ver. Prov. Brand. 1895) p. 4. In fimo ad Halensee-Colonie, Grunewald, Germania.
- *caryophyllacea* Britz. Hymen. Kunde I. p. 8 fig. 266. In silvis Bavariae.
- *bilamellata* Peck. Bull. Torr. bot. Cl. 1895. p. 204. Ad vias Pasadena, California.
- Hypholoma longipes* Peck Torr. bot. Cl. 1895. p. 204. Inter folia dejecta Pasadena, California. 185.
- *cutifractum* Peck Bull. Torr. bot. Cl. 1895. p. 490. Ad caudices Populi italicae, Kansas Amer. bor.
- *peltostes* Kalchbr. ap. Mc Alpine Arrang. Austr. Fungi p. 32. Ad terram N. South Wales, Australiae.
- Bolbitius contribulans* Britz. Hymen. Kunde I. p. 10 fig. 5. In serragine lignea putri in Bavaria.
- *marcescibilis* Britz. Hymen. Kunde I. p. 10 fig. 6. In fragmentis putridis in Bavaria.
- *albipes* Otth Bern. Mittheil. 1870. p. 92. In pascuis Helvetiae.
- *radians* Morg. New N. Amer. Fungi, 1895. p. 36. tab. I. fig. 1. In stramine putri, in fimo equino, Canada, Ohio. 190.
- Coprinus Jonesii* Peck Bull. Torr. bot. Cl. 1895. p. 206. In cella vinaria, Vermont Amer. bor.
- *ebulbosus* Peck Bull. Torr. bot. Cl. 1895. p. 491. Caespitosus ad basim truncorum Populi moniliferae, Kansas Amer. bor.
- *laniger* Peck Bull. Torr. bot. Cl. 1895. p. 491. Caespitosus ad basim Populi moniliferae, Kansas Amer. bor.
- *apiculatus* Peck Bull. Torr. bot. Cl. 1895 p. 206. Ad terram Pennsylvania. 195.
- *grandisporus* P. Henn. Hedw. 1895. p. 331. Ad terram in Erythraea, Africa.
- *fuscellus* Britz. Hymen. Kunde I. p. 9 fig. 275a. Ad terram in Bavaria.
- *pulverulento-floccosus* Britz. Hymen. Kunde I. p. 9 fig. 275. In fimo vaccino in Bavaria.
- *incrassatus* Britz. Hymen. Kunde I. p. 9 fig. 276. In fimo equino in Bavaria.
- *lanato-furfurosus* Britz. Hymen. Kunde I. p. 9 fig. 277a. In fimo equino in Bavaria. 200.
- *calyptratus* Peck Bull. Torr. bot. Cl. 1895. p. 205. Ad terram cultam, Kansas.
- Panaeolus digressus* Peck Bull. Torr. bot. Cl. 1895. p. 205. In fimetis. Pasadena California.
- *intermedius* Peck Bull. Torr. bot. Cl. 1895 p. 205. In rejectamentis, Pasadena California.
- Psathyrella graveolens* Sacc. in Dom. Sacc. Plant. spont. O. B. P. 1896. tab. 1. n. 1. Ad humum in calidariis Horti Bot. Patavini, Italia.
- *leucostigma* Peck Bull. Torr. bot. Cl. 1895. p. 490. Ad terram udam umbrosam, Kansas Amer. bor. 205.

## Fam. 2. Polyporaceae Fr.

- Boletus thibetanus* Pat. Bull. Soc. mycol. 1895. p. 196. tab. XIII fig. 2. Ad terram, Thibet orient.
- *turbiniformis* C. Mart. Contr. mycol. genev. p. 192. In pratis humidis Helvetiae.
- *violaceus* C. Mart. Contr. mycol. genev. p. 192. Sub Pinubus in muscosis Helvetiae.
- *miniatus* C. Mart. Contr. mycol. genev. p. 191. In silvaticis Helvetiae.
- *splendidus* C. Mart. Contr. mycol. genev. p. 190. In silvaticis umbrosis Helvetiae. 210.

- Boletus validus** C. Mart. Contr. mycol. genev. p. 190. Sub Quercubus in Helvetia.  
 — **fragilipes** C. Mart. Contr. mycol. genev. p. 189. Ad terram in Helvetia.  
 — **lacunosus** Otth in Trog. Bern. Mittheil. 1857. p. 37. In Bremgartenwald, Helvetia.  
 — **fulgineo-spermus** Britz. Hymen. Kunde I. p. 12 fig. 75. In silvis Bavariae.  
 — **subaequalis** Britz. Hymen. Kunde I. p. 14 fig. 77. In silvaticis Bavariae. 215.  
 — (**Phylloporus**) **intermedius** Pat. Bull. Soc. mycol. 1895. p. 86. tab. XI fig. 3. Ad terram Madagascar. Exacte medius inter Boletum et Paxillum.  
 — **inflexus** Peck Bull. Torr. bot. Cl. 1895. p. 207. In silvaticis Pennsylvaniae.  
 — **borealis** Peck Bull. Torr. bot. Cl. 1895. p. 206. Ad terram arenosam Labrador.  
**Gyrodon capensis** Sacc. (spec. nova mox edenda). Ad terram in Capite Bonae spei et Natal.  
**Polyporus** (**Mesopus**) **fulgineo-albus** Trog. in Bern. Mittheil. 1857. p. 38. Prope Lauterbrunnen, Helvetia. 220.  
 — (**Apus**) **laxus** Otth in Trog. Bern. Mittheil. 1857. p. 39. Ad Populi truncos dejectos in Helvetia. Affinis videtur P. labyrinthico.  
 — (**Ovini**) **esculentus** Britz. Hymen. Kunde I. p. 14 fig. 172. In ramis putridis Sarothamni in Bavaria.  
 — (**Lenti**) **ochraceo-cinereus** Britz. Hymen. Kunde I. p. 14 fig. 175. Ad truncos pineos in Bavaria.  
 — (**Lenti**) **erythroporus** Otth Bern. Mittheil. 1868. p. 38. In truncis corticatis et decorticatis fagineis pr. Bern, Helvetia. Effuso-reflexus, 3 cm long., multiplex, albidus, hymenio carneo, carne albo, pori minuti, brevissimi, subangulati.  
 — **pellitus** Karst. Hedw. 1895. p. 7 (Bjerkandera). In truncis et ramis Betulae et Abietis pr. Mustiala Fenniae. 225.  
 — **aureo-marginatus** P. Henn. Fungi camer. I. p. 89. Ad truncos putres, Kamerun.  
 — **sericeus** Pat. Bull. Boiss. 1895. p. 53. Ad truncos vetustos, Aequatoria.  
 — **squamulosus** P. Henn. Pilze Ostaf. p. 57. Ad truncos? in Africa tropica.  
 — **anceps** Peck Bull. Torr. bot. Cl. 1895. p. 207. In Tsuga canadensi, Massachusetts.  
 — **pseudo-radiatus** Pat. Bull. Soc. mycol. 1895. p. 207. Ad truncos arborum in Aequatoria. 230.  
 — **Sancti-Georgii** Pat. Bull. Soc. mycol. 1895. p. 207. Ad truncos arborum in Aequatoria.  
**Fomes albo-luteus** Ellis et Ev. Proceed. Acad. Philadelph. 1895. p. 413. In truncis cariosis Abietis subalpinae, Colorado.  
 — **minutulus** P. Henn. Fungi camer. I. p. 88. Ad truncos, Kamerun.  
 — **tinctorius** Ell. et Ev. Bull. Torr. bot. Cl. 1895. p. 362. Ad truncos et ramos pineos, Alaska.  
 — **circumstans** Morg. New N. Amer. Fungi, 1895. p. 37. tab. I. fig. 4 (**Polyporus**). Ad truncos Shepherdiae argenteae, South Dakota. 235  
 — (**Ganoderma**) **valesiacus** Boud. Bull. Soc. bot. Fr. 1894. p. CCXLV et Bull. Soc. myc. 1895. p. 28. Ad basim truncorum Laricis, Rifflalp Valesia.  
 — **fasciculatus** Pat. Bull. Soc. mycol. 1895. p. 86. t. XI. f. 1. Ad caudices, Congo.  
**Polystictus atro-albus** P. Henn. Fungi camer. I. p. 92. Ad truncos? Kamerun.  
 — **ekunduesis** P. Henn. Fungi camer. I. p. 91. Ad truncos putres, Ekundu Kamerun.  
 — **Holstii** P. Henn. Pilze Ostaf. p. 57. In ramis emortuis in Africa tropica. 241  
 — **subfiabellum** P. Henn. Fungi camer. I. p. 91. Ad truncos putres, Kamerun.  
 — **Gregorii** Annie Lorrain Smith in Journ. of Bot. 1895. p. 341. Ad cortices, Africa orient.  
**Poria tephra** Pat. Bull. Soc. mycol. 1895. p. 208. Ad ramos emortuos in Aequatoria.

- Poria xanthospora* Underwood Proc. Indiana Acad. 1893. p. 61. Sub cortice relaxato Populi heterophyllae, Indiana Amer. bor.
- *Dusenii* P. Henn. Fungi camer. I. p. 88. Ad cortices truncorum, Kamerun. 245
- Henningia* Möll. Protobasid. p. 44 (Nov. gen.) Genus initio vere thelephorem, demum polyporeum.
- *geminella* Möll. l. c. Ad truncos in Brasilia.
- Trametes trabea* Otth. Bern. Mittheil. 1870. p. 92. Ad truncos et ligna pinea, quercina, faginea, populina in Helvetia.
- *Fagi* Otth Bern. Mittheil. 1870. p. 93. In ligno fagineo fluctuato in Helvetia.
- *nivea* Otth Bern. Mittheil. 1870. p. 94. Ad ligna pinea putrescentia in Helvetia. 250
- *Chusqueae* Pat. Bull. Boiss. 1895. p. 54. t. II. fig. 7. In truncis Chusqueae sp. in Aequatoria.
- *andina* Pat. Bull. Soc. mycol. 1895. p. 208. Ad truncos vetustos in Aequatoria.
- *Ellisiana* P. Henn. Fungi camer. I. p. 92. Ad truncos Sierra Leone Africae.
- *gausapata* Cooke Grev. XV. p. 55 (1886). Ad truncos in Australia
- Laschia* (Favolaschia) *saccharina* Pat. Bull. Boiss. 1895. p. 54. In truncis putridis Chusqueae in Aequatoria. 255
- — *Volkensii* Bres. in P. Henn. Pilze Ostaf. p. 58. Ad ligna putrida in Africa tropica.
- — *Frieseana* P. Henn. Fungi camer. I. p. 94. Ad petiolos putres Palmarum? Kamerun.
- — *lateritia* P. Henn. Fungi camer. I. p. 93. Ad ramos putres, Kamerun.
- — *bibundensis* P. Henn. Fungi camer. I. p. 94. Ad petiolos putres Elaeis guineensis, Kamerun.

### Fam. 3. Hydnaceae Fr.

- Hydnum serotinum* C. Mart. Contr. mycol. genev. p. 194. In muscosis montanis sub nive in Helvetia. 260
- *andinum* Pat. Bull. Boiss. 1895. p. 55. Ad truncos emortuos in Aequatoria.
- *citreum* Pat. Bull. Boiss. 1895. p. 55. Ad truncos vetustos dejectos in Aequatoria.
- *Dusenii* P. Henn. Fungi camer. I. p. 87. Ad cortices truncorum, Kamerun.
- *atro-viride* Morg. New N. Amer. Fungi, 1895. p. 38. tab. I. fig. 5. (Mesopus). Ad truncos emortuos, Alabama Amer. bor.
- Irpex brevidens* Pat. Bull. Boiss. 1895. p. 55. Ad ligna emortua in Aequatoria. 265
- *quisquiliaris* Pat. Bull. Boiss. 1895. p. 55. Ad fragmenta lignea dejecta in Aequatoria.
- ? *lamellosus* Pat. Bull. Boiss. 1895. p. 56. Ad ligna putrescentia in Aequatoria.
- Grandinia livescens* Karst. Hedw. 1895. p. 8 (Grandiniella). In ligno mucido Tiliae pr. Mustiala Fenniae.
- *fusco-lutea* E. et Ev. Proc. Acad. Philadelph. 1895. p. 413. In truncis putridis dejectis, New Jersey.
- Odontia andina* Pat. Bull. Boiss. 1895. p. 56. Ad cortices et ligna putrida in Aequatoria. 270

### Fam. 4. Thelephoraceae Pers.

- Thelephora* (Stipitatae) *pallida* Otth Bern. Mittheil. 1868. p. 38. Inter conos abietinos et folia faginea in Bremgartenwald, Helvetia. — Erecta, simplex v. furcata, spatulato-infundibularis, pallide carneolo-ochracea, 3—5 cm alta.

- Telephora subundulata* Peck Bull. Torr. bot. Cl. 1895. p. 492. Ad terram, Delaware Amer. bor.
- Stereum flavo-ferrugineum* Karst. Hedw. 1895. p. 8 (*Xerocarpus*?). In ligno putrido Pini pr. Mustiala Fenniae.
- *fuscus-olivaceum* Otth in Trog. Bern. Mittheil. 1887. p. 40. In ligno abietino pr. Bern, Helvetia.
- *fulvum* Otth Bern. Mittheil. 1868. p. 39. Ad truncos in Helvetia. 275.
- Corticium radicatum* P. Henn. Pilze Ostaf. p. 54. In truncis emortuis in Africa tropica.
- *agglutinans* Pat. Bull. Boiss. 1895. p. 57. Ad truncos putres in Aequatoria.
- *stratosum* Pat. Bull. Boiss. 1895. p. 57. Ad cortices in Aequatoria.
- *ochraceo-lividum* Pat. Bull. Boiss. 1895. p. 57. Ad ligna emortua in Aequatoria.
- Asterostroma pallidum* Morg. New North Amer. Fungi, 1895. p. 38. tab I. fig. 6. 280.  
Ad ligna vetusta late effusum, California.
- Peniophora trachytricha* E. et. Ev. Proc. Acad. Philadelph. 1895. p. 413. In cortice ramorum Quercus, New Jersey.
- Hypochnus andinus* Pat. Bull. Boiss. 1895. p. 58. Ad terram in Aequatoria.
- *Euphorbiae* Pat. Bull. Boiss. 1895. p. 58. Ad truncos siccos Euphorbiae in Aequatoria.
- Matruchotia complens* Möll. Protobasid. p. 150. Ad truncos in Brasilia; ubi cl. Möller etiam Matr. variantem Boulanger pluries observavit.
- Exobasidium Giseckiae* Allesch. in Henn. Pilze Ostaf. p. 54. In foliis floribusque, quae deformantur, Giseckiae pharnacioidis in Africa tropica. 285.
- Cyphella Brayerae* P. Henn. Pilze Ostaf. p. 55. In petiolis Brayerae anthelminticae in Africa tropica.
- *usambarensis* P. Henn. Pilze Ostaf. p. 55. In ramis putrescentibus in Africa tropica.
- *variolosa* Kalchbr. — var. *Volkensii* P. Henn. Pilze Ostaf. p. 55. In cortice Erythrinae tomentosae in Africa tropica.
- *poriformis* P. Henn. Fungi camer. I. p. 85. In vaginis foliorum Palmarum, Kamerun.
- *rufo-brunnea* P. Henn. Fungi camer. I. p. 88. Ad cortices, Kamerun. 290.
- *disciformis* P. Henn. Fungi camer. I. p. 85. Ad culmos emortuos Penniseti, Kamerun.
- *globosa* Pat. Bull. Soc. mycol. 1895. p. 209. In foliis Filicis cujusdam in Aequatoria.
- *Erica* Pat. Bull. Soc. mycol. 1895. p. 209. Ad ligna vetusta in Aequatoria.
- *filicola* Cooke Grev. XIV. p. 129 (1886). Ad frondes Adianti, Victoria, Australiae.
- Craterellus pusu* Berk. Fl. Tasm. II. p. 258, Cooke Handb. Austral. Fungi n° 966. 295.  
Inter muscos in Australia boreali.

#### Fam. 5. Clavariaceae Corda.

- Sparassis Herbstii* Peck Bull. Torr. bot. Cl. 1895. p. 207. Ad terram, Pennsylvania.
- Lachnocladium strictum* P. Henn. Fungi camer. I. p. 86. Ad ligna emortua, Kamerun.
- *Dusenii* P. Henn. Fungi camer. I. p. 86. Ad terram arenosam, Kamerun.

- Lachnocladium quangense* P. Henn. Fungi camer. I. p. 86. In silvis ad terram, Angola et Kamerun.
- *galaxaurioides* P. Henn. Pilze Ostaf. p. 55. In areis ustis in Africa tropica. 300.
- *pteruloides* P. Henn. Pilze Ostaf. p. 55. Sub folia putrida in Africa tropica.
- Pterula incarnata* Pat. Bull. Boiss. 1895. p. 58. Ad fragmenta lignea dejecta in Aequatoria.
- Pistillaria Penniseti* P. Henn. Fungi camer. I. p. 86. Ad folia emortua Penniseti, Kamerun.

Fam. 6. **Tremellaceae** Fr. (sensu lato).

- Stypinella* Schröt. Schles. Pilzfl. p. 383. A gen. Hypochno praecipue basidiis transverse articulatis cylindraceis recedit.
- *orthobasidion* Möll. Protobasid. p. 12 et 161. tab. IV fig. 1. In corticibus emortuis in Brasilia. 305.
- Saccoblastia* Möll. Protobasid. p. 162 (Nov. genus). Est quasi. Hypochnus sporis pleurogenis, basidiis articulatis, cylindraceis. Sporae sphaericae v. ovoideae.
- *ovispora* Möll. l. c. tab. IV fig. 3. In corticibus putridis in Brasilia.
- *sphaerospora* Möll. l. c. tab. IV fig. 2. In corticibus putrescentibus in Brasilia.
- Jola* Möll. Protobasid. p. 162. tab. IV fig. 4 (Nov. gen.) — Membranaceo-incrustans; basidia cylindracea, transverse septata acro-pleurospora; sporae falcatae, magnae.
- *Hookeriarum* Möll. l. c. p. 163. tab. IV fig. 4. In Hookeriis, Blumenau, Brasilia. 310.
- Pilacrella* Schröt. Schles. Pilzfl. I. p. 384. Habitus fere Pilacres sed basidia elongata transverse pluriseptata, auriculariacea. Huc P. Solani Cohn et Schröt. (Syll. X p. 686).
- *delectans* Möller Protobasid. p. 164. tab. V fig. 18—33. In silvis Blumenau, Brasilia.
- Mytillopsis* Pat. Journ. Bot. 1895. p. 247. (Nov. gen.). Receptaculum tuberculiforme, indurato-gelatinosum e fibris radiantibus omnino compositum, hymenio amphigeno; basidiis rectis transverse septatis, paraphysibus immixtis.
- *Langloisii* Pat. l. c. Ad truncos in silvis paludosis Louisiana Amer. bor. (Langlois);
- Sebacina reticulata* Pat. Bull. Boiss. 1895. p. 59. Ad ligna denudata putrida in Aequatoria. 315.
- *mucedinea* Pat. Bull. Boiss. 1895. p. 60. Ad fragmenta ligna dejecta in Aequatoria.
- Stypella* Möll. Protobasid. p. 166 (Nov. gen.) Est quasi *Stypinella* basidiis globulosis tremellaceis.
- *papillata* Möll. l. c. tab. IV fig. 6. Ad ligna emortua pr. Blumenau Brasiliae.
- *minor* Möll. l. c. tab. IV fig. 7. Cum praecedente.
- Platyglea blastomyces* Möll. Protobasid. p. 163. tab. IV fig. 5. In corticibus emortuis, Blumenau Brasiliae. 320.
- Heterochaete? solenia* Pat. Bull. Boiss. 1895. p. 69. Ad ramulos emortuos in Aequatoria.
- *Sanctae-Catharinae* Möll. Protobas. p. 167. tab. IV fig. 8. In corticibus emortuis, Blumenau Brasiliae.
- Sirobasidium Brefeldianum* Möll. Protobasid. p. 165. tab. VI. In silvis pr. Blumenau Brasiliae.
- Exidiopsis* Ols. in Bref. Untersuch. VII. p. 94. (Nov. gen.). Pelliculosa, tenuissima, levis, incrustans; basidia globoso-ovata tremellacea; adsunt conidia hamata.
- *glabra* Möll. Protobasid. p. 168. Ad truncos emortuos pr. Blumenau Brasiliae. 325.



- Exidiopsis ciliata* Möll. l. c. p. 168. tab. II fig. 4. In corticibus putridis pr. Blumenau Brasiliae.
- *cerina* Möll. Protobasid. p. 167. Ad ligna putrescentia pr. Blumenau Brasiliae.
- *verruculosa* Möll. l. c. p. 168. In corticibus putridis pr. Blumenau Brasiliae.
- *tremellispora* Möll. l. c. p. 168. In corticibus et lignis putridis pr. Blumenau Brasiliae.
- Exidia sucina* Möll. Protobasid. p. 169. In corticibus putrescentibus pr. Blumenau Brasiliae. 330.
- Tremella compacta* Möll. Protobasid. p. 170. tab. I fig. 2, tab. IV fig. 12. In corticibus putrescentibus pr. Blumenau Brasiliae.
- *auricularia* Möll. l. c. p. 170. tab. IV fig. 16. In corticibus putridis pr. Blumenau Brasiliae.
- *fibulifera* Möll. l. c. p. 170. tab. II fig. 3. In lignis putridis in silvis Blumenau Brasiliae.
- *anomala* Möll. Protobasid. p. 171, tab. IV. fig. 11. In ramis emortuis pr. Blumenau Brasiliae.
- *spectabilis* Möll. Protobasid. p. 171, tab. III. fig. 2. Ad truncos pr. Blumenau, Brasiliae. 335.
- *fucoides* Möll. Protobasid. p. 171. tab. II fig. 2, tab. IV fig. 17. Ad truncos pr. Blumenau Brasiliae.
- *damaecornis* Möll. Protobasid. p. 172. tab. IV fig. 9. In truncis pr. Blumenau Brasiliae.
- *dysenterica* Möll. Protobasid. p. 172. In fragmentis ligneis putridis udis pr. Blumenau Brasiliae.
- *setulosa* P. Henn. Fungi camer. I. p. 83. Ad truncos putres, Kamerun.
- *olivaceo-nigra* Britz. Hymen. Kunde I. p. 16 fig. 28. Ad truncos pineos in Bavaria. 340.
- *faginea* Britz. Hymen. Kunde I. p. 16 fig. 29. In truncis fagineis in Bavaria.
- *ochracea* Pat. Bull. Boiss. 1895. p. 59. In trunco putri Chusqueae in Aequatoria.
- Protohydnum* Möll. Protobasid. p. 173 (nov. gen.). Est *Hydnum resupinatum tremellaceum*.
- *cartilagineum* Möll. l. c. t. III. f. 1, V. f. 35. In ramis putridis pr. Blumenau, Brasiliae.
- Hyaloria* Möll. Protobasid. p. 173. (Nov. gen.). Fungus verticalis, columnaris, caespitosus; fructificatio tremellacea. 345.
- *Pilacre* Möll. l. c. p. 173 tab. I fig. 3 et V fig. 27. Ad caudices putres, praesertim Palmarum (*Euterpe*) pr. Blumenau Brasiliae.
- Craterocolla minuta* Pat. Bull. Soc. mycol. 1895. p. 210 (*Ditangiūm*). Parasitica in Perisporiaceae quadam ad folia arborea in Aequatoria.
- Guepinia helvelloides* P. Henn. Pilze Ostaf. p. 53. In ligno putrescente in Africa tropica.
- *camerunensis* P. Henn. Fungi camer. I. p. 84. Ad ligna putrida, Kamerun.
- *agaricina* Pat. Bull. Soc. mycol. 1895. p. 210. (*Guepiniopsis*). Ad ligna putrida in Aequatoria. 350.
- *andina* Pat. Bull. Soc. mycol. 1895. p. 211. (*Guepiniopsis*). Ad truncos putres Chusqueae in Aequatoria.

## Gasteromyceteae Willd.

Sacc. Syll. Fung. VII p. 1, IX p. 262, XI p. 252.

- Floccomutinus* P. Henn. Fungi camer. I. p. 109 (Nov. genus). — Receptaculum stipitiforme, fasciato-compressum, pileo carens, in parte superiore pulpa sporifera obtectum, annulato-sulcatum, dein floccis (trama?) vestitum. Sporae tereti-ellipsoideae. — *Mutino* affinis.



- Floccomutinus Zenkeri* P. Henn. l. c. In truncis vetustis, Kamerun.
- Kalchbrennera Tuckii* Kalchbr. et. M. Ow. — var. *clathroides* P. Henn. Fungi camer. I. p. 108. Ad terram, Togo.
- Cyathus affinis* Pat. Bull. Soc. mycol. 1895. p. 87, XXI fig. 4. In detritis ligneis, Madagascar. An idem ac *C. Lesueurii*? 355.
- Secotium decipiens* Peck Bull. Torr. bot. Cl. 1895. p. 492. Ad vias et in herbosis in California.
- Cycloderma apiculatum* Annie Lorrain Smith in Journ. of bot. 1895. p. 340. Ad terram silvestrem in Africa orient.
- Tylostoma semisulcatum* Peck Bull. Torr. bot. Cl. 1895. p. 209. Ad terram sabulosam, Nevada Amer. bor.
- Battarrea attenuata* Peck Bull. Torr. bot. Cl. 1895. p. 208. Ad terram sabulosam, Nevada Amer. bor.
- Bovista limosa* Rostr. Oest-Grönl. Svampe p. 10. Ad terram in Groenlandia orient. 360.  
— *cellulosa* E. et. Ev. Proc. Acad. Philad. 1895. p. 414. Ad terram, Colorado.
- Lycoperdon umbrino-fuscum* Pat. Bull. Boiss. 1895. p. 60. Ad terram pr. Quito Aequatoriae.
- *alpigenum* E. et Ev. Proc. Acad. Philad. 1895. p. 414. Ad terram prope trabes, N. W. Colorado.
- *Bellii* Peck Bull. Torr. bot. Cl. 1895. p. 209. Ad terram rupestrem Hudson's Bay Amer. bor.
- *pileolatum* Kalchbr. ap. Mc. Alpine Arrang. Austr. Fungi, p. 96. Ad terram N. South Wales, Australiae. 365.
- *dryinum* Morg. New N. Am. Fungi, 1895. p. 39. tab. II. fig. 10. Inter folia dejecta in silvis quercinis, Ohio Amer. bor.
- Galvatia leiospora* Morgan New North Amer. Fungi, 1895. p. 39. tab. II. fig. 8. In pascuis, South Dakota Amer. bor.
- *hesperia* Morgan New. N. Amer. Fungi, 1895. p. 39. tab. II. fig. 9. In arenosis Pasadena, Californiae.
- Geaster velutinus* Morgan New N. Amer. Fungi, 1895. p. 38. tab. I. fig. 7. Ad terram, Columbia Amer. bor.
- Scleroderma pisiforme* P. Henn. Fungi camer. I. p. 110. Ad terram sub foliis Kamerun. 370.
- Gautieria Otthii* Trog in Bern. Mittheil. 1857. p. 43. In Hardlingsberg Helvetiae. Receptaculum 2—3 cm diam. subglobosum. Loculi minutissimi, innumeri. Sporae ovoideae, brunneae, intus granulosaе, breviter stipitatae; odor debilis, ingratus.

## Uredinaceae Brongn.

Sacc. Syll. VII. p. 449, IX p. 282, XI p. 175.

- Uromyces elegans* (B. et C.) Lagerh. Ured. herb. Fries. p. 34. In foliis Trifolii caroliniani in Amer. bor.
- *Bauhiniae* P. Henn. Fungi goyaz. p. 90. In foliis vivis Bauhiniae in Brasilia.
- *goyazensis* P. Henn. Fungi goyaz. p. 89. In ramulis inflorescentiae Bauhiniae in Brasilia.
- *Neurocarpi* Diet. Hedw. 1895. p. 292. In foliis *Neurocarpi cajanifolii*, Bahia. Amer. merid. 375.
- *Costi* P. Henn. Hedw. 1895. p. 321, Ur. *Dichorisandrae* P. Henn. Fungi goyaz. p. 91. In foliis *Costi pumili* in Brasilia.
- *dubiosus* P. Henn. Fungi goyaz. p. 91. In foliis *Lantanae* sp. in Brasilia.

- Uromyces manihoticola* P. Henn. Fungi goyaz. p. 90. In foliis Manihot sp. in Brasilia.
- *Manihotis* P. Henn. Fungi goyaz. p. 90. In foliis Manihot in Brasilia.
- (*Pileolaria*) *Cnidoscoli* P. Henn. Fungi goyaz. p. 90. In foliis *Cnidoscoli* viti-folii in Brasilia. 380.
- *Alchemillae-alpinae* Ed. Fisch. Bull. Soc. bot. Fr. 1894. p. CCXLI. In foliis *Alchemillae* pentaphylleae et *A. alpinae* in Alpibus, Grand-Saint-Bernard etc.
- *andinus* Lagerh. in Pat. Bull. Soc. mycol. 1895. p. 213. Ad folia Rubi sp. Quito in Aequatoria.
- *Bidentis* Lagerh. in Pat. Bull. Soc. mycol. 1895. p. 213. In foliis *Bidentis* andicola pr. Quito in Aequatoria.
- *quitensis* Lagerh. in Pat. Bull. Soc. mycol. 1895. p. 213. In foliis Rubi sp. pr. Quito Aequatoriae.
- *Werneriae* Lagerh. in Pat. Bull. Soc. mycol. 1895. p. 212. In foliis *Werneriae* nubigenae, Chimborazo Aequatoriae. 385.
- *pulchellus* E. et E. Nov. spec. Ust. Ured. p. 57. In foliis et petiolis *Silenis*? in America bor.
- *Demetrianus* Pazschke Hedw. 1895. p. (101). In foliis vivis *Apocyni* cannabini in America bor.
- *inconspicuus* Otth Bern. Mittheil. 1868. p. 69. In foliis *Chenopodii*, *Alchemillae*, *Galeopsidis*, *Fragariae*, *Polygoni*, *Cannabidis*, *Solani*, *Amarant.* in Helvetia. Sporae nigro-fuscae, ellipsoideae, leves, 32 = 18, apiculo nunc minutissimo, hyalino, verruciformi, nunc planae nullo; stipes hyalinus, brevissimus, vix diametro longior; caespituli punctiformes, atri, oligospori. — „Quid sit haec species pantogena me latet, certe dubia res.”
- *Gladioli* P. Henn. Hedw. 1895. p. 326. In foliis *Gladioli* angusti in Capite Bonae spei.
- *bicolor* Ellis in Contrib. U. S. Nation. Herbar. IV. p. 231. In foliis *Allii* validi, California. 390.
- *caricinus* E. et E. Nov. spec. Ust. Ured. p. 58. In foliis et culmis *Caricis* scopariae in America boreali.
- *minimus* Davis Botan. Gaz. 1894. p. 415. In foliis *Mühlenbergiae* silvaticae, Wisconsin.
- *Cunninghamianus* Barcl. — var. *somalensis* P. Henn. Fungi somal. p. 2. In foliis, petiolis ramisque *Jasmini*, Somalia Africae.
- Melampsora Euphorbiae-dulcis* Otth Bern. Mittheil. 1868. p. 70. In foliis *Euphorbiae* dulcis in Helvetia.
- *alpina* Juel Mykol. Beiträge I. p. 417. In foliis *Salicis* herbaceae et *S. polaris* in Norvegia et Suecia. — *Uredosporae* aurantiae, 18 = 15, spinulosae. *Teleutosporae* Mel. farinosae sed subcutanee evolutae. 395.
- *Ruspoliana* P. Henn. Fungi somal. p. 2. In foliis vivis *Vernoniae* sp., Somalia, Africae.
- *Pedicularis* Voglino Bull. Soc. bot. ital. 1896. p. 38. In foliis *Pedicularis* verticillatae M. Generoso, Helvetiae.
- Phacopsora* Dietel Berichte deut. bot. Gesell. 1895. p. 333 (nov. gen.). A *Melampsora* praecipue teleutosporis stratosi in corpus lentiforme conjunctis recedit.
- *punctiformis* (Barcl.) Diet. l. c. In foliis *Galii* Aparines, Himalaya.
- Schizospora* Dietel in Ber. deut. bot. Gesell. 1895. p. 334 (nov. gen.) Affinis *Puccinosirae*, sed teleutosporae non catenulatae. 400.
- *Mitragynes* Dietel l. c. t. XXVI. fig. 15. In foliis *Mitragynes* macrophyllae penitus immersa, Sierra Leone.
- Puccinia Onobrychidis* Otth Bern. Mittheil. 1868. p. 68. In foliis *Onobrychidis* sativae in Helvetia.

- Puccinia denticulata* Oth Bern. Mittheil. 1868. p. 69. In foliis Möhringiae trinerviae in Helvetia.
- *Trifoliatae* E. et E. Nov. spec. Ust. Ured. p. 58. In caulibus foliisque Tiarellae trifoliatae in America bor.
- *Philibertiae* E. et E. Nov. spec. Ust. Ured. p. 60. In foliis et folliculis Philibertiae viridiflorae in Amer. bor. 405.
- *Hemipogonis* P. Henn. Fungi goyaz. p. 92. In ramis Hemipogonis setacei in Brasilia.
- *Ziziae* E. et E. Nov. spec. Ust. Ured. p. 60. In foliis Ziziae cordatae in America bor.
- *Ligustici* Ell. et Ev. Bull. Torr. bot. Cl. 1895, p. 363. In foliis Ligustici scopulorum, Colorado.
- *Oxalidis* Diet. et Ell. Hedw. 1895. p. 291. In foliis Oxalidis sp. in Mexico.
- *septentrionalis* Juel Mykol. Beitr. IV. p. 383, P. mammillata Juel Mykol. Beitr. I. nec Schröt. In foliis Polygoni vivipari in montibus Scandinaviae; aecidiosporae in Thalictrum alpino (*Aecidium Sommerfeltii* Johans.) ibique et in Helvetia, Groenlandia, Islandia. 410
- *Banisteriae* P. Henn. Fungi goyaz. p. 94. In foliis Banisteriae sp. in Brasilia.
- *destruens* P. Henn. Fungi goyaz. p. 92. In foliis ramisque Euphorbiaceae arboreae cujusdam in Brasilia.
- *Nephrophylli* P. Henn. Pilze Ostaf. p. 50. In foliis Nephrophylli sp. in Africa tropica.
- *claviformis* Lagerh. Ured. herb. Fries. p. 53. In foliis Solani sp. in Surinam. (Schweinitz sub *Aecidio solanito*.)
- *Chaetogastriae* Lagerh. Bull. Soc. mycol. 1895. p. 214. In foliis Chaetogastrae in Aequatoria. 415.
- *Blechi* Lagerh. Bull. Soc. mycol. 1895. p. 214. In foliis Blechi in Aequatoria.
- *Ruelliae* (B. et Br.) Lagerh. Ured. herb. Fries. p. 71. In foliis Ruelliae prostratae, Ceylon (sub Ured. Ruelliae).
- *Paranahybae* P. Henn. Hedw. 1895. p. 320. In foliis Ruelliae sp., Goyaz Brasilia.
- *Thunbergiae alatae* P. Henn. Pilze Ostaf. p. 50. In foliis Thunbergiae alatae in Africa tropica.
- *Schlechteri* P. Henn. Hedw. 1895. p. 326. In foliis Gomphocarpi Schinziani, Transvaal. 420.
- *Nesaeae* Ell. et Ev. Bull. Torr. Cl. 1895, p. 363 (St. teleut. *Aecidii Neseae* Ger.). In foliis Nesaeae verticillatae, Missouri.
- *Acocantherae* P. Henn. Pilze Ostaf. p. 50. In foliis Acocantherae Schimperii in Africa tropica.
- *aequalis* P. Henn. Pilze Ostaf. p. 50. In foliis Antidesmae? in Africa tropica.
- *Elytrariae* P. Henn. Hedw. 1895. p. 320. In foliis Elytrariae crenatae in Brasilia.
- *Uleana* P. Henn. Fungi goyaz. p. 93. In foliis Caleae (Compositae) in Brasilia. 425.
- *Mutisiae* Lagerh. in Pat. Bull. Soc. mycol. 1895. p. 213. In foliis caulibusque Mutisiae sp. in Aequatoria.
- *horrida* Lagerh. Bull. Soc. mycol. 1895. p. 214. In foliis Eupatorii in Aequatoria.
- *vernonicola* P. Henn. Pilze Ostaf. p. 50. In foliis Vernoniae sp. in Africa tropica.
- *macroecia* E. et E. Nov. spec. Ust. Ured. p. 59. In foliis Asteris pulchelli in America boreali.
- *Mölleriana* P. Henn. Hedw. 1895. p. 336. In foliis Baccharidis sp. in Brasilia. 430.
- *spectabilis* Oth Bern. Mittheil. 1865. p. 176. In pag. inf. foliorum *Cirsii ochroleuci* pr. Giessbach Helvetia. Comparanda cum speciebus *cirsicolis* posterius descriptis.
- *longipes* Lagerh. Ured. herb. Fries. p. 64. In caule v. petiolo Ambrosiae sp. in America borealis (Schw. sub *P. bullata*).

- Puccinia lateritia* B. et C., Lagerh. Ured. herb. Fries. p. 63. In foliis *Spermacoces* (?) in Surinam.
- *Mougeotii* Lagerh. Ured. herb. Fries. p. 66 et 131. In foliis caulibusque *Thesii alpini* in Gallia (*Mougeot*).
- *Boehmeriae* P. Henn. Hedw. 1895. p. 336. In foliis *Boehmeriae* spec. in Brasilia. 435.
- *biformis* Lagerh. Bol. Brot. VIII. 1890. In foliis *Rumicis bucephalophori* in Lusitania.
- *Quercus* Otth Bern. Mittheil. 1868. p. 68. In foliis *Quercus* in Helvetia.
- *Ficalhoana* Lagerh. Bol. Brot. VIII. 1890. In foliis *Scillae campanulatae* in Lusitania.
- *Pitcairniae* Lagerh. Bull. Soc. mycol. 1895. p. 214. In foliis *Pitcairniae* in Aequatoria.
- *granulisporea* Ell. et Galloway. Nov. spec. Ust. Ured. p. 61. In caulibus foliisque *Allii cernui* in America boreali. 440.
- *Habenariae* P. Henn. Pilze Ostaf. p. 50. In foliis caulibusque *Habenariae* sp. in Africa tropica.
- *subcoronata* P. Henn. Fung. goyaz. p. 94. In foliis vivis *Cyperi* sp. in Brasilia.
- *canaliculata* (Schw.) Lagerh. Ured. herb. Fries. p. 51. In *Cypero* et in involucro *Scirpi* in Amer. bor.
- *nigrovelata* Ell. et Tracy Mississippi Fungi 1895. p. 86. In *Cypero strigoso*, Mississippi.
- *Cladii* Ell. et Trac. Mississippi Fung. 1895. p. 84. In *Cladio effuso*, Mississippi. 445.
- *Vaginatae* Juel. On nögra heter. Ured. p. 56. In foliis *Caricis vaginatae* in Jemtlandia. Uredosporae 22 = 16, echinulatae, ferrugineae; teleutosporae 41—48 = 16—20, fuscae, pedicelli persistentes 40—50  $\mu$  long.
- *Schröteriana* Klebahn in Zeitschr. f. Parasitenk. 1895. p. 261. In foliis *Caricis Goodenoughii*, Oldenburg, intermixto statu aecidiosp. (*Aecidium Serratulae* Schröt.)
- *rupestris* Juel. On nögra heter. Ured. p. 56. In foliis culmisque *Caricis rupestris* in Jemtlandia. Uredosporae 25 = 19; teleutosporae 34—44 = 14—20, pedicellis 30 — 40  $\mu$  long. *Aecidium Saussureae*  $\beta$  rupestre Juel promiscue crescens est status aecidiosporus.
- *omnivora* E. et E. Nov. spec. Ust. Ured. (N. A. F. 3049) p. 59. In foliis *Chrysopogonis nutantis* in America boreali.
- *substerilis* E. et E. Nov. spec. Ust. Ured. (N. A. F. 3141) p. 58. In foliis *Chrysopogonis* sp. in America bor. 450.
- *nemoralis* Juel. Mycol. Beitr. III. p. 506. cum iconibus. In foliis *Moliniae coeruleae* in Suecia. Aecidiosporae *Aecidii Melampyri* K. et S.; teleutosporae Pucc. *Moliniae* similes, sed plerumque breviores et longius stipitatae. Ut notum est ad P. *Molinia* spectat *Aecidium Orchidearum* Desm.
- *Andropogonis* Otth Bern. Mittheil. 1863. p. 86. In foliis *Andropogonis Ischaemi*, Steffisburg Helvetia. Verisimiliter congruit cum quadam specie posterius descripta.
- *solenodonta* Otth Bern. Mittheil. 1863. p. 86. In foliis *Holci lanati*, Steffisburg. Verisim. forma P. *coronatae*.
- *amphigena* Diet. Hedw. 1895. p. 291. In foliis *Calamagrostidis canadensis*, Illinois Amer. bor.
- *Piptatheri* Lagerh. Bol. Brot. 1890. vol. VIII. In *Piptathero multifloro* in Lusitania. 455.
- *Arundinariae* Schw., Lagerh. Ured. herb. Fries. p. 48. In foliis *Arundinariae macrospermae* in Amer. bor.
- *oahuensis* Ell. et Ev. Bull. Torr. Cl. 1895. p. 435. In foliis graminum (*Panici vel Holci*) in ins. Sandwich.
- *Leontopodii* Voglino Bull. Soc. bot. ital. 1896. p. 37. In foliis *Leontopodii alpini*, Canton Ticino Helvetiae.

- Puccinia Coprosmatidis* Morrison in Mc. Alp. Arrang. Austr. Fungi, p. 200. In foliis Coprosmatidis Billardieri et Operculariae variae, Victoria, Australiae.
- *rimosa* Link. Wint. in Hedw. 1880. p. 28. In calamis Isolepididis nodosae, 460.  
Victoria, Australiae.
- Diorchidium goyazense* P. Henn. Fung. goyaz. p. 94 (Puccinia). In foliis Panici sp. in Brasilia.
- *flaccidum* (B. et Br.) Lagerh. Ured. herb. Fries. p. 80. In foliis Panici in Ceylon.
- Gymnoconia* Lagerh. Ured. herb. Fries. p. 84. (nov. gen.) St. aecidiosp. Aecidium nitens Schw.; st. teleutosp. Puccinia Peckinia Howe, Caecoma interstitiale Schlecht. — Generi Pucciniae affinis (nimis?).
- *interstitialis* (Schlecht.) Lagerh. l. c. In foliis Ruborum in America bor.
- Ravenelia opaca* (Seym. et Earle) Diet. Hedw. 1895. p. 291. In foliis petiolisque 475.  
Gleditschiae Triacanthi, Illinois Amer. bor.
- *arizonica* Ell. et Ev. Bull. Torr. Cl. 1895. p. 363. In foliis Prosopidis juliflorae, Arizona.
- *Stuhlmanni* P. Henn. Fungi camer. I. p. 82. Ad folia Cassiae Petersianae, Usambara, Africa.
- *Acaciae-Farnesianae* P. Henn. Hedw. 1895. p. 321, Rav. Mimosa P. Henn. Fungi goyaz. p. 95. In ramulis et petiolis Acaciae Farnesianae in Brasilia.
- *Uleana* P. Henn. Fungi goyaz. p. 96. In foliis Cassiae sp. in Brasilia.
- *goyazensis* P. Henn. Fungi goyaz. p. 96. In foliis Andirae Pisonis in Brasilia. 470.
- *Dieteliana* P. Henn. Fungi goyaz. p. 96. In foliis Calliandrae macrocephalae in Brasilia.
- *Munduleae* P. Henn. Fungi somal. p. 3. In foliis Munduleae suberosae, Somalia, Africa.
- Cronartium usneoides* P. Henn. Fungi goyaz. p. 95. In foliis Conyzae sp. in Brasilia.
- *Bresadoleanum* P. Henn. Pilze Ostaf. p. 51. In foliis Erythroxyli sp. in Africa tropica.
- *Gilgianum* P. Henn. Fungi camer. I. p. 83. Ad folia coriacea arboris ignotae, 475.  
Benguella, Africa.
- Masseella* Diet. Berichte deut. bot. Gesell. 1895. p. 332. (nov. gen.) A gen. Cronartium differt defectu Uredosporarum, teleutosporis gelatina obvolutis etc.
- *Capparidis* (Hobs.) Diet. l. c. tab. XXVI fig. 14, Cronartium Hobs., Syll. Fung. VII. p. 599. In foliis Capparidis, Bombay, India.
- Aecidium immersum* P. Henn. Hedw. 1895. p. 330. In ramulis Acaciae abyssinicae in Erythraea.
- *Glycines* P. Henn. Pilze Ostaf. p. 52. In foliis Glycines javanicae in Africa tropica.
- *Crotalariae* P. Henn. Pilze Ostaf. p. 52. In foliis Crotalariae grandibracteatae 480.  
in Africa tropica.
- *Sphaeralceae* Ell. et Ev. Bull. Torr. bot. Cl. 1895. p. 364. In foliis Sphaeralceae angustifoliae, New-Mexico.
- *Cerastii* Otth Bern. Mittheil. 1863. p. 89. In foliis Cerastii silvatici Bremgartenwald, Helvetia. Comparandum cum Aec. Cerastii Wint. posteriore.
- *Hyperici* P. Henn. Pilze Ostaf. p. 52. In foliis Hyperici lanceolati in Africa tropica.
- *Vitis* Annie Lorrain Smith in Journ. of Bot. 1895. p. 362. In foliis Vitis in Africa orient.
- *Anonae* P. Henn. Fungi goyaz. p. 100. In foliis Anonae sp. in Brasilia. 485.
- *anonaceicola* P. Henn. Fungi goyaz. p. 101. In foliis vivis Anonaceae cujusdam in Brasilia.
- *Hyptidis* P. Henn. Hedw. 1895 p. 337. In foliis Hyptidis spec. in Brasilia.

- Aecidium Tournefortiae* P. Henn. Hedw. 1895 p. 338. In foliis Tournefortiae spec. in Brasilia.
- *malapontense* P. Henn. Hedw. 1895. p. 321. In foliis Acanthaceae spec. in Brasilia.
- *byrsonimaticola* P. Henn. Hedw. 1895. p. 321. In foliis Byrsonimatis in Brasilia. 490.
- *Byrsonimatis* P. Henn. Fungi goyaz. p. 101. In foliis caulibusque Byrsonimatis sp. in Brasilia.
- *Isnardiæ* Lagerh. Ured. herb. Fries. p. 102. In foliis Isnardiæ sp. Ohio Amer. bor.
- *Eriosematis* P. Henn. Fungi goyaz. p. 103. In foliis vivis Eriosematis sp. in Brasilia.
- *goyazense* P. Henn. Fungi goyaz. p. 101. In foliis caulibusque Loranthis in Brasilia.
- *Scorzonerae* Lagerh. Ured. herb. Fries. p. 105. In foliis Scorzonerae angustifoliae in Gallia (Castagne). 495.
- *kilimandscharicum* P. Henn. Pilze Ostaf. p. 53. In foliis Senecionis multicorymbosi in Africa tropica.
- *Agerati* P. Henn. Pilze Ostaf. p. 53. In foliis caulibusque Agerati conyzoidis in Africa tropica.
- *Saussureae* Johans. Bot. Not. 1886 p. 168. a *silvestre* Juel. om nögra heter. Ured. p. 53 (maculis numerosis; cellulis peridialibus 27—34  $\mu$  lat.; sporis 14—18  $\mu$  diam.) —  $\beta$  *rupestre* (maculis parcissimis; cellulis perid. 20  $\mu$  lat.; sporis 15—20  $\mu$  diam.). In foliis Saussureae alpinae,  $\alpha$  in regione abietina et betulina,  $\beta$  in regione betulina et alpina  $\alpha$  in Jemtlandia.
- *Leonotidis* P. Henn. Pilze Ostaf. p. 52. In foliis Leonotidis velutinae in Africa tropica.
- *Acanthi* Annie Lorrain Smith in Journ. of Bot 1895 p. 343. In foliis Acanthi spec. in Africa orient. 500.
- *Salaciae* P. Henn. Fungi goyaz. p. 100. In foliis Salaciae sp. in Brasilia.
- *Pouchetiae* Sacc. Fl. mycol. Lusit. App. p. 61. In foliis vivis Pouchetiae parviflorae ad littora St. Thomé.
- *Xylopiæ* P. Henn. Fungi goyaz. p. 100. In foliis Xylopiæ sp. in Brasilia.
- *cylindricum* E. et E. Nov. spec. Ust. Ured. p. 61. In foliis Houstoniae angustifoliae in Amer. bor.
- *Cnidoscoti* P. Henn. Fungi goyaz. p. 102. In foliis vivis Cnidoscoti vitifolii in Brasilia. 505.
- *jasminicola* P. Henn. Pilze Ostaf. p. 53. In foliis Jasmini Meyeri-Johannis in Africa tropica.
- *Heteromorphae* Annie Lorrain Smith in Journ. of Bot. 1895. p. 342. In caulibus et petiolis Heteromorphae sp. in Africa orient.
- *Kraussianum* P. Henn. Pilze Ostaf. p. 53. In foliis Smilacis Kraussianae in Africa tropica.
- Uredo cassicola* P. Henn. Fungi goyaz. p. 98. In foliis Cassiae sp. in Brasilia.
- (*Ravenelia*) *maranguensis* P. Henn. Pilze Ostaf. p. 51. In foliis Indigoferae arrectae in Africa tropica. 510.
- — *mruariensis* P. Henn. Pilze Ostaf. p. 51. In foliis Cassiae goratensis in Africa tropica.
- — *Longipedis* P. Henn. Fungi goyaz. p. 97. In foliis Calliandrac longipedis in Brasilia.
- *bauhiniicola* P. Henn. Fungi goyaz. p. 98. In ramulis Bauhiniae rubiginosae in Brasilia.
- *Dalbergiae* P. Henn. Fungi goyaz. p. 98. In foliis Dalbergiae in Brasilia.

- Uredo Lentis* Lagerh. Bull. Soc. Mycol. 1895. p. 215. In caulibus folisque *Lentis esculentae* in Aequatoria. 515.
- *Hyperici-Schimperi* P. Henn. Pilze Ostaf. p. 51. In foliis *Hyperici Schimperi* in Africa tropica.
- *Terminaliae* P. Henn. Hedw. 1895. p. 321. U. *Byrsonimatis* P. Henn. Fungi goyaz. p. 98. In foliis *Terminaliae argenteae* in Brasilia.
- *Eugeniarum* P. Henn. Hedw. 1895. p. 337. In foliis *Eugeniarum* in Brasilia.
- *Pithecolobii* P. Henn. Fungi goyaz. p. 98. In ramulis *Pithecolobii* sp. in Brasilia.
- *uberabensis* P. Henn. Hedw. 1895. p. 321. In foliis *Byrsonimatis* sp. in Brasilia. 520.
- *capituliformis* P. Henn. Fungi goyaz. p. 97. In foliis *Alchorneae* sp. in Brasilia.
- *Forsteroniae* P. Henn. Fungi goyaz. p. 99. In foliis ramulisque *Forsteroniae* sp. in Brasilia.
- *Licaniae* P. Henn. Fungi goyaz. p. 99. In foliis *Licaniae* in Brasilia.
- *Cupheae* P. Henn. Fungi goyaz. p. 99. In foliis *Cupheae* sp. in Brasilia.
- *Hyptidis* P. Henn. Fungi goyaz. p. 100. In foliis *Hyptidis scabrae* in Brasilia. 525.
- *eupatoriicola* P. Henn. Hedw. 1895. p. 337. In foliis *Eupatorii* sp. in Brasilia.
- *Crotonis* P. Henn. Fungi goyaz. p. 99. In foliis *Crotonis* sp. in Brasilia.
- *velata* Ell. et Ev. Bull. Torr. Cl. 1895. p. 435. In foliis *Euphorbiae cordatae* in insula Sandwich.
- *Schoenocauli* Ell. et Ev. Bull. Torr. Cl. 1895. p. 438. In *Schoenocaulo gracili*, Florida.
- *psychotriicola* P. Henn. Hedw. 1895. p. 321. In foliis *Psychotriae* spec. in Brasilia. 530.
- *Leonotidis* P. Henn. Pilze Ostaf. p. 52. In foliis *Leonotidis velutinae*, cum Aecidio, in Africa tropica.
- *cancerina* P. Henn. Hedw. 1895. p. 330. In caulibus *Leonotidis velutinae* in *Erythraea*, Africa.
- *Bomareae* Lagerh. Bull. Soc. mycol. 1895. p. 215. In foliis *Bomareae* in Aequatoria.
- *Cherimoliae* Lagerh. Bull. Soc. mycol. 1895. p. 215. In foliis *Anonae Cherimoliae* in Aequatoria.
- *Eucharidis* Lagerh. Bull. Soc. mycol. 1895. p. 215. In foliis *Eucharidis candidae* in Aequatoria. 535.
- *Holstii* P. Henn. Pilze Ostaf. p. 52. In foliis *Psychotriae* sp. in Africa tropica.
- *Psychotriae-Volkensii* P. Henn. Pilze Ostaf. p. 52. In foliis *Psychotriae Volkensii* in Africa tropica.
- *Achyranthis* P. Henn. Pilze Ostaf. p. 51. In foliis *Achyranthis asperae* in Africa tropica.
- *Periplocae* P. Henn. Pilze Ostaf. p. 52. In foliis *Periplocae linearis* in Africa tropica.
- *tangaensis* P. Henn. Pilze Ostaf. p. 51. In foliis *Euphorbiae* sp. frutescentis in Africa tropica. 540.
- (Melampsora) *Euphorbiae-Engleri* P. Henn. Pilze Ostaf. p. 51. In foliis *Euphorbiae Engleri* in Africa tropica.
- (Caeoma) *aberrans* Peck Bull. Torr. bot. Cl. 1895. p. 210. In cortice vivo *Alni*, Newfoundland.
- *cypericola* P. Henn. Pilze Ostaf. p. 52. In foliis *Cyperis* sp. in Africa tropica.
- *abscondita* Fautr. Rev. mycol. 1895. p. 171. In foliis convolutis *Festuae heterophyllae*, Côte d'Or, Gallia.
- *Andropogonis-lepidi* P. Henn. Pilze Ostaf. p. 52. In foliis *Andropogonis lepidi* in Africa tropica. 545.
- *Gymnogrammes* P. Henn. Hedw. 1895. p. 337. In foliis *Gymnogrammes* sp. in Brasilia.



# Ustilaginaceae Tul.

Sacc. Syll. VII. p. 451, IX. p. 282, XI. p. 230.

- Ustilago Arenariae* Ell. et Ev. Bull. Torr. bot. Cl. 1895. p. 362. In inflorescentia Arenariae congestae, Colorado.
- *seminum* Juel Mycol. Beitr. II. p. 491, Bref. Unters. XII. p. 119. In seminibus Arabidis petraeae in Scandinavia. — Massa spor. umbrina; sporae 13  $\mu$  diam. vel 19 = 9, crassiuscule papillosae pallidae.
- *Adoxae* Bref. Unters. XII. p. 119. t. VII. In rhizomate Adoxae Moschatellinae, Münster, Germania.
- *Vrieseana* Vuillemin Comptes rendus 1894. p. 933, Zeitschr. für Pflanzenkr. 1895. p. 113. In truncis, ubi tumores gignit, Eucalyptorum in horto botanico Amsterdam. 550.
- *Lagerheimii* Bref. Unters. XII. p. 136, t. VIII. In caulibus et petiolis Rumicis sp. in Aequatoria (Lagerheim).
- *Möllerii* Bref. Unters. XII. p. 132. In fructibus Polygoni hispidi in Brasilia (Möller).
- *domestica* Bref. Unters. XII. p. 135, t. VIII. In axi Rumicis domestici in Norvegia.
- *Koordersiana* Bref. Unters. XII. p. 132, t. VIII. fig. 5—6 (U. Polygoni barbati). In fructibus Polygoni barbati, Java.
- *Welwitschiae* Bres. in Sacc. Fl. mycol. Lusit. App. 61. In squamis conorum Welwitschiae mirabilis, Mossamedes Afr. 555.
- *subolivacea* P. Henn. Fungi Somal. p. 1. In ovariis Caricis ramosae, Somalia, Africa.
- *Schlechteri* P. Henn. Hedw. 1895. p. 325. In paniculis Sporoboli sp., Transvaal.
- *Dactyloctenii* P. Henn. Pilze Ostaf. p. 48. In inflorescentia Dactyloctenii aegyptiaci, Sansibar, Africa.
- *Aristidae-cyananthae* Bref. Unters. XII. p. 102, t. VI. In fructibus Aristidae cyananthae in India or. (Cunningham).
- *Panici-frumentacei* Bref. Unters. XII. p. 102, t. VI. In ovariis Panici frumentacei in India or. (Barclay). 560.
- *Coicis* Bref. Unters. XII. p. 110, t. VI. In fructibus Coicis Lacrimae in India or. (Barclay).
- *Panici-leucophaei* Bref. Unters. XII. p. 114. t. VI. In inflorescentia Panici leucophaei, Brasilia (Ule).
- *tumefaciens* P. Henn. Pilze Ostaf. p. 48. In inflorescentia Andropogonis rufi in Africa tropica.
- *heterospora* P. Henn. Pilze Ostaf. p. 48. In floribus Panici maximi in Africa tropica.
- *pustulata* Tracy et Earle Miss. Fungi, 1895. p. 92. In ovariis Panici proliferi, Mississippi. 565.
- *ugandensis* P. Henn. Pilze Ostaf. p. 48. In spicis Panici in Africa tropica.
- *ornata* Tracy et Earle Mississippi Fungi, 1895. p. 92. In ovariis Leptochloae ornatae, Mississippi.
- *monilifera* Ell. et Ev. Bull. Torr. bot. Cl. 1895. p. 362. In ovariis Heteropogonis contorti, Arizona.
- *Mulfordiana* Ell. et Ev. Bull. Torr. bot. Cl. 1895. p. 362. In paniculis Festucae, Idaho.
- *Washingtoniana* E. et E. New spec. Ust. Ured. p. 57. In foliis Graminearum quarundam in America bor. 570.
- *Sacchari-ciliaris* Bref. Unters. XII. p. 109. t. VI. In inflorescentia Sacchari ciliaris in India orient. (Cunningham).



- Ustilago Andropogonis-annulati* Bref. Unters. XII. p. 109. t. VI. In inflorescentia Andropogonis annulati in India orient. (Cunningham).
- *Boutelouae-humilis* Bref. Unters. XII. p. 116. t. VII. In inflorescentia Boutelouae humilis in Aequatoria (Lagerheim).
- *Cynodontis* Henn. F. Afr. I. p. 369 (ut var.), Bref. Unters. XII. p. 105. t. VI. In inflorescentia Cynodontis Dactyli in Abyssinia et India or.
- *Paspali-dilatati* P. Henn. ap. Bref. Unters. XII. p. 122. t. VII. In inflorescentia Paspali dilatati in Brasilia (Möller).
- *Arundinellae* Bref. Unters. XII. p. 108. t. VI. In inflorescentia Arundinellae sp. in India orient. (Cunningham).
- *Andropogonis-tuberculati* Bref. Unters. XII. p. 108. t. VI. In inflorescentia Andropogonis tuberculati in India or. (Barclay).
- *Ulei* P. Henn. Fung. goyaz. p. 88. In foliis Chloridis sp. in Brasilia.
- Neovossia Barclayana* Bref. Unters. XII. p. 170. t. X. In fructibus Penniseti triflori in India or. (Barclay).
- Anthracoidea* Bref. Unters. XII. p. 142 (nov. gen.) Affinis Ustilagini sed germinatio aliena.
- *subinclusa* Bref. l. c. t. IX. fig. 1—3. In fructibus Caricum variarum ex g. C. ripariae, C. vasicariae, C. ampullaceae in Europa.
- *Caricis* (Pers.) Bref. l. c. t. IX. fig. 4—5. Ustilago Pers. In fructibus Caricum variarum in Europa, India, Brasilia.
- Contractia caricicola* P. Henn. Hedw. 1895. p. 325. In bracteis Caricis spatheae, Transvaal.
- *Krugiana* P. Magn. — var. *usambarensis* P. Henn. Pilze Ostaf. p. 48. In Rhynchospora aurea in Africa tropica.
- Tilletia zonata* Bref. Unters. XII. p. 161. t. X. In floribus Sporoboli ligularis in Aequatoria (Lagerheim).
- *Sesleriae* Juel Mycol. Beitr. II. p. 494. In foliis Sesleriae coeruleae, ubi strias longas nigras efficit, in Gotlandia. Sporae 25—28  $\mu$  diam., atro-brunneae, tenuiter anguste reticulatae.
- ? *Irregularis* Pazzschke Hedw. 1895. p. (101). In foliis vivis Andropogonis sp. in Brasilia.
- Melanotaenium cingens* Bref. Unters. XII. p. 173. t. X. In surculis Linariae genistifoliae in Austria.
- Entyloma Oleandrae* P. Henn. Hedw. 1895. p. 326. In foliis Oleandrae articulatae, Natal.
- *arnicale* E. et E. Nov. spec. Ust. Ured. p. 57. In foliis Arnicae cordifoliae, Idaho America bor.
- *Bidentis* P. Henn. Pilze Ostaf. p. 49. In foliis Bidentis pilosi in Africa tropica.
- *cissigena* P. Henn. Pilze Ostaf. p. 49. In foliis Cissi in Africa tropica.
- *Corydalis-luteae* Voglino in Bull. Soc. bot. ital. 1896. p. 36. In foliis et caulibus vicis Corydalis luteae, Canton Ticino, Helvetia.
- Sirentyloma* P. Henn. Hedw. 1895. p. 319. — Mycelium intercellulare; sporae catenulatae, dein secedentes, fuscae, episporio crasso, levi.
- *Salaciae* P. Henn. l. c. In foliis Salaciae sp. Goyaz Brasiliae.
- Tolyposporium Penicillariae* Bref. Unters. XII. p. 154. t. IX. In inflorescentia Penicillariae spicatae in India or. (Barclay).
- *Cenchri* Bref. Unters. XII. p. 156. t. IX. In inflorescentia Cenchri echinati in Brasilia (Möller).
- *Volkensii* P. Henn. Pilze Ostaf. p. 49. In ovariis Sorghorum cultorum in Africa tropica.

- Tolyposporium Chloridis** F. Henn. Pilze Ostaf. p. 49. In fructibus Chloridis abyssinicae in Africa tropica.
- **Anthistiriae** Cobb ap. Mc. Alpine Arrang. Austral. Fungi p. 202. In inflorescentia Anthistiriae ciliatae, N. South Wales, Australia.
- Doassansia intermedia** Morot in Journ. de bot. 1895. p. 471. In foliis Alimatis ranunculoidis in Gallia.
- **affinis** Ell. et Dearn. Bull. Torr. bot. Cl. 1895. p. 364. In Sagittaria variabili, Canada.
- Sorosporium Holstii** P. Henn. Pilze Ostaf. p. 49. In inflorescentia Themedae Forskolei in Africa tropica.
- **maranguensis** P. Henn. Pilze Ostaf. p. 49. In inflorescentia Andropogonis lepidi in Africa tropica.
- **cuneatum** Schofield in Webb. App. Cat. Fl. Nebr. 1892. Idem est ac posterius S. Solidaginis Ell. et Ev. — Syll. XI. p. 237 — editum anno 1893. Cfr. Bull. Torr. Cl. 1895. p. 363.
- Ustilaginoidea** Bref. Unters. XII. p. 194 (nov. gen.) E promycelio oriuntur sporidiola hyalina et conidia (tilletiaeformia) pleurogena sessilia colorata. Stirps vix ustilaginea.
- **Oryzae** (Pat.) Bref. l. c. p. 194. t. XI. fig. 22—33. Tilletia Oryzae Pat. In fructibus Oryzae in India or. et Japonia.
- **Setariae** Bref. l. c. p. 202. In inflorescentia Setariae Crucis-Ardeae in Brasilia.

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## Phycomyceteae De Bary.

Sacc. Syll. VII p. 181, IX p. 335, XI p. 239.

### Fam. 1. Mucoraceae De Bary.

- Phycomyces Pirottianus** Morini in Malp. 1896. p. 89. tab. III. fig. 8—12. In stercore equino, Messina Siciliae.
- Dispira americana** Thaxt. Bot. Gaz. 1895. p. 513. tab. XXXV. In stercore murino, parasitica in Mucorè. Ohio Amer. bor. Zygosporae describuntur, hinc mucoracea species.
- Thamnidium Arbuscula** (Otth) Sacc. Melidium Otth Bern. Mittheil. 1865. p. 172. In crustis lichenum ad ligna faginea coacervata in Helvetia. Hyphae stiptiformes, continuae, elatae, 0,5 mm alt., superne ramosae, rami alterni patentes, repetito dichotomi, ramulis omnibus pariter in angulum circ. grad. 120 divergentibus, dichotomiis regulari modo successive paullo minus inter se distantibus; ramuli extrem. breves sporangia acrogena gerentes, globosa, hyalina, sporis quaternis, ellipsoideis, vix coloratis foeta.

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### Fam. 2. Peronosporaceae De Bary.

- Peronosporae Corollae** Tranzschel Hedw. 1895. p. 214. In corollis Campanulae persicifoliae pr. Nowgorod Rossiae.
- **Alchemillae** Otth Bern. Mittheil. 1868. p. 65. In pag. inf. foliorum Alchemillae vulgaris pr. Bern Helvetia. Hyphae quinquies dichotomae. Conidia fuscicula 13  $\mu$  diam. v. ellipsoidea ad 19  $\mu$  longa. Oosporae ignotae.
- **cannabina** Otth Bern. Mittheil. 1868. p. 63. In pag. inf. foliorum Cannabis sativae pr. Steffisburg Helvetia. Caspituli cinereo-violascentes. Hyphae inaequaliter bis ter ramosae, ramulis divaricatis. Conidia ellipsoidea, griseola. Oosporae ignotae.

- Peronospora Epilobii** Otth Bern. Mittheil. 1868. p. 63. In pag. infer. foliorum Epilobii parviflori pr. Bern Helvetiae. Hyphae sat longae, sursum ramosae, ramis alternis repetito-ramulosis apiceque 2—3 furcatis. Conidia globoso-ellipsoidea 13—15  $\mu$  diam. v. usque 21  $\mu$  long. Oosporae ignotae. 615.
- **Podagrariae** Otth in Trog. Bern. Mittheil. 1857. p. 45. In pag. inf. foliorum Aegopodii Podagrariae, Bern Helvetia. Videtur Plasmopara nivea.
- **Whippleae** Ell. et Ev. Bull. Torr. bot. Cl. 1895. p. 364. In foliis Whippleae modestae, California.

### Fam. 3. Saprolegniaceae De Bary.

- Monoblepharis insignis** Thaxt. Bot. Gaz. 1895. p. 438. tab. XXIX. fig. 1—7. Ad ramenta submersa in fossis et stagnis in America bor.
- **fasciculata** Thaxt. Bot. Gaz. 1895. p. 439. tab. XXIX. fig. 8—12. Ad ramenta submersa in fossis et stagnis cum praecedente.
- Gonapodya** A. Fisch. Phycm. p. 327 et 382 cum icon. A gen. Monoblepharide differt praecipue mycelii hyphis aequaliter constricto-moniliformibus. 620.
- **siliquaeformis** (Reinsch) Thaxt. Bot. Gaz. 1895. p. 480. tab. XXXI. fig. 6—10. Gonapodya prolifera A. Fisch., Saprolegnia siliquaeformis Reinsch. In fructibus putridis aqua immersis in Europa et America.
- **polymorpha** Thaxt. Bot. Gaz. 1895. p. 481. tab. XXXI. fig. 11—16. In ramulis aqua submersis in Amer. bor.
- Myrioblepharis** Thaxt. Bot. Gaz. 1895. p. 482 (nov. gen.). Pythio subaffinis sed zoosporae multiciliatae, magnae, e contentu sporangiorum divisione oriundae etc.
- **paradoxa** Thaxt. l. c. tab. XXX. fig. 1—5. In ramentis aqua submersis in America bor.

### Fam. 4. Chytridiaceae De Bary et Wor.

- Synchytrium Shuteriae** P. Henn. Pilz. Ostaf. p. 30. In foliis Shuteriae africanae in Africa trop. 625.
- **Johanssonii** Juel Bidrag Skand. Synch. p. 246. In foliis Veroniceae scutellatae in Jemtlandia. Sporae quiescentes 48—55  $\mu$  diam, episporio fusco.
- **Phegopteridis** Juel Bidrag Skand. Synch. p. 246. In foliis Phegopteridis poly-podioidis in Jemtlandia. Sporae 130—150 = 90, episporio vix fuscescente.
- **rugulosum** Diet. Hedw. 1895. p. 292. In foliis caulibusque Onagraceae cujusdam, California.
- Astreptonema** Hauptfleisch in Ber. d. Deutsch. Bot. Gesell. 1895. p. 83. c. tab. Thallus non racemosus. Oosporae in quoque oogonio singulae pluri-nucleatae, oblongae. Oogonia terminalia, superimposita seu catenulata.
- **longisporum** Hauptf. l. c. In tegumento Gammari Locustae in Germania. 630.
- Rhizophidium messanense** Morini in Malp. 1896. p. 72, tab. III. fig. 1—4. In filamentis cujusdam Cladophorae, Messina, Siciliae.

## Pyrenomyceteae Fr. em.

Sacc. Syll. Fungi I p. 1, IX p. 364, XI p. 252.

### Fam. 1. Perisporiaceae Fr.

- Sphaerotheca tomentosa** Otth Bern. Mittheil. 1865. p. 168. In pag. inf. foliorum et caulibus Euphorbiae dulcis in Helvetia. Subiculum tomentosum, albidum. Perithecia subimmersa, appendiculis rufis a subiculi hyphis vix distinctis. Ascus unicus sporidiis octonis foetus.

- Monascus purpureus** Went in Ann. Sc. nat. Bot. 1895. Sept. tab. I—II. In caryopsidibus Oryzae coctis, quas fungillus rubro-tingit et ex quibus contritis substantia tinctoria purpurea oritur, quam Sinenses Ang-Quac dicunt, lateque fungilli cultura obtinent. — Genus, ut videtur, inter Eurotaceas et Theleboleas fere medium.
- Eurotium semilimmersum** El. March. Champ. copr. VII. p. 128. tab. II. fig. 3—3a. In fimo suino putrido in Belgio.
- Asterula? goyazensis** P. Henn. Fungi goyaz. p. 104. In foliis coriaceis fruticis ignoti in Brasilia. 635.
- Asterina calotheca** Pat. Bull. Soc. mycol. 1895. p. 221. Ad folia arborum sp. in Aequatoria.
- **globifera** Ell. et Ev. Bull. Torr. Cl. 1895. p. 435. In foliis Grevilleae in ins. Sandwich.
- **Vochysiae** P. Henn. Fungi goyaz. p. 103. In foliis Vochysiae sp. in Brasilia.
- **Couepiae** P. Henn. Fungi goyaz. p. 104. In foliis Couepiae sp. in Brasilia.
- **Caricarum** Rehm Hedw. 1895. p. (161). Ad folia viva Caricae, Millegalli, Aequatoria. 640.
- Asteridium Illicii** Tracy et Earle Miss. Fungi, 1895. p. 100. In foliis Illicii floridani, Mississippi.
- **dothideoides** Ell. et Ev. Bull. Torr. Cl. 1895. p. 436. In foliis Andromedae ferrugineae, Florida.
- Asteronia Sweetiae** P. Henn. Fungi goyaz. p. 104. In foliis Sweetiae sp. in Brasilia.
- Dimerosporium Magnoliae** Tracy et Earle Mississippi Fungi, 1895. p. 99. In foliis Magnoliae glaucae, Mississippi.
- **Englerianum** P. Henn. Pilze Ostaf. p. 31. In ramis, quos deformat, Ericinellae Mannii in Africa tropica. 645.
- **Forsteroniae** P. Henn. Fungi goyaz. p. 105. In foliis vivis Forsteroniae sp. in Brasilia.
- **Salaciae** P. Henn. Fungi goyaz. p. 105. In foliis vivis Salaciae sp. in Brasilia.
- **Elliottii** Annie Lorrain Smith in Journ. of Bot. 1895. p. 343. In foliis Ericae arboreae in Africa orient.
- **Bosci** P. Henn. Fungi somal. p. 4. In foliis Bosciae somalensis, Somalia, Africa.
- Parodiella dothideoides** Pat. Bull. Soc. mycol. 1895. p. 221. In foliis Iresines in Aequatoria. 650.
- **consimilis** P. Henn. Fungi goyaz. p. 106. In foliis coriaceis Myrtaceae cujusdam in Brasilia.
- Argyria** Morg. New N. Amer. Fungi, 1895. p. 41. (nov. gen.). Perithecia carbonacea, subglobosa, demum reticulatim dehiscencia et hinc subpolyedra. Asci (verisim. cito diffusi). Sporidia fuliginea, 1-septata, subtrapeziiformia, papilionem simulantia.
- **polyedron** (Schw.) Morg. l. c. tab. II. fig. 14, Physarum polyedron, Schw. N. A. F. n. 2300. In ligno carioso Caryae, Ohio, Amer. bor.
- Meliola acanthopoda** Pat. Bull. Soc. mycol. 1895. p. 222. In foliis arboris ignotae in Aequatoria.
- **sandicensis** E. et Ev. Bull. Torr. bot. Cl. 1895. p. 434. In foliis Rubiaceae cujusdam, Sandwich island. 655.
- **Didymopanax** P. Henn. Fungi goyaz. p. 106. In foliis Didymopanax sp., Minas Geraes Brasilia (Glaziou). — Perithecia 160—200  $\mu$  diam., setis subulatis 20—260 = 9—11. Asci 42—56 = 20—26, bispori; sporidia constricta — 4-septata, 40—53 = 14—18, fusco-brunnea. Mycelium non setigerum.

*Meliolopsis usambarensis* Rehm in P. Henn. Pilze Ostaf. p. 31. In ramulis emortuis in Africa tropica.

*Ceratocarpia* Roll. Bull. Soc. mycol. 1896. p. 1 (nov. gen.). Perithecia superficialia, globosa, astoma, fusca, byssiseda. Asci octospori, aparaphysati, ovati. Sporidia muriformia, colorata, utrinque appendiculata.

— *Cactorum* Roll. l. c. tab. I fig. 3. In spinis Cacti Opuntiae emortui, Golfe Juan Galliae.

*Capnodium melioloides* Pat. Bull. Soc. mycol. 1895. p. 222. In foliis Urticaceae cujusdam in Aequatoria. 660.

— *crassum* Pat. Bull. Soc. mycol. 1895. p. 223. In foliis Melastomaceae cujusdam in Aequatoria.

— *Lygodesmiae* Ell. et Ev. Proc. Acad. Philadelph. 1895. p. 414. Ad caules vivos Lygodesmiae junceae, Colorado.

## Fam. 2. Sphaeriaceae Fr.

### Sect. 1 Allantosporae.

*Calosphaeria occulta* Otth Bern. Mittheil. 1870. p. 96. In truncis Abietis excelsae in Helvetia.

*Valsa* (Euvalsa) *acericola* Otth Bern. Mittheil. 1870. p. 98. In ramis Aceris Pseudoplatani in Helvetia. — Sporidia octona 16—26 = 3—4, flavida.

— — *Platanoidis* Otth (non Pers.) Bern. Mittheil. 1868. p. 97. In ramis Aceris Platanoidis in Helvetia. — Sporidia 16—22 = 4—6, octona, hyalina. 665.

— — *Melanodiscus* Otth Bern. Mittheil. 1870. p. 97. In ramis Alni incanae in Helvetia. — Sporidia 8—11 = 4—5, hyalina.

— *leucopsis* Ell. et Ev. Proc. Acad. Phil. 1895. p. 425. In cortice Fraxini viridis ? Nebraska.

— *brevis* Peck Bull. Torr. bot. Cl. 1895. p. 210. In cortice Abietis balsameae, Labrador.

*Eutypella herbicola* Ell. et Ev. Proc. Acad. Philad. 1895. p. 426. In caule Asteris cordifoliae, Ohio.

— *Rosae* Otth Bern. Mittheil. 1870. p. 97 (Valsa). In ramis emortuis Rosae caninae in Helvetia. — Sporidia 10 = 2, hyalina. 670.

— *alpina* Ell. et Ev. Proc. Acad. Philad. 1895. p. 425. In truncis emortuis Alni incanae, Colorado.

*Cryptosphaeria juglandina* Ellis et Holw. Bull. Hist. nat. Jowa 1895. p. 41. In ramis emortuis Juglandis cinereae, Decorah Jowa Amer. bor. Stroma effusum, corticola, perithecia 0,5—0,7, ostiolis obtusis; asci 110  $\mu$  long., 60 = 10 p. sp.; sporidia octona, allantoidea, 15—20 = 3,5—4,5 flavo-brunnea.

*Cryptoralsa Coryli* Voglino Bull. Soc. bot. Ital. 1896. p. 40. In ramis corticatis Coryli Avellanae, Canton Ticino, Helvetia.

*Oiatrypella obscurata* (Schw.) Ellis Pyren. Schwein. p. 8, Sphaeria Schw. (in herb.). In ramis arboris cujusdam in Amer. bor. — Sporidia 5—6 = 1,2, flavida.

— *Fraxini* Ell. et Ev. Proc. Acad. Philad. 1895. p. 426. In ramis emortuis Fraxini viridis, Kansas. 675.

### Sect. 2. Phaeosporae.

*Anthostoma simplex* (Otth) Sacc., *Quaternaria simplex* (Otth) Nke. in Otth Bern. Mittheil. 1870. p. 95. In ramis emortuis Tiliae in Helvetia. — Sporidia 26—30 = 14, demum nigro-fusca.

— *Ailanthi* (Otth) Nke. in Otth Bern. Mittheil. 1870 p. 16<sup>th</sup> (Phaeosperma). In ramis corticatis Ailanthi in Helvetia. Sporidia 12—14 = 4, fumosa, ellipsoidea.

- Ceratostoma albo-maculans* E. et Ev. Proc. Acad. Phil. 1895. p. 418. In ligno putri, Ohio.
- *melaspermum* E. et Ev. Proc. Acad. Philad. p. 417. In ligno putri, Ohio.
- Rosellinia muriculata* E. et Ev. Proc. Acad. Phil. 1895. p. 416. In cortice interiore Populi moniliferae, Kansas. 680.
- *geasteroides* E. et Ev. Proc. Acad. Phil. 1895. p. 415. In culmis dejectis Arundinariae, Louisiana.
- *poliosa* Ell. et Ev. Bull. Torr. Cl. 1895. p. 439. In ligno putri, Mexico.
- *Chusqueae* Pat. Bull. Soc. mycol. 1895. p. 224. In truncis emortuis Chusqueae in Aequatoria.
- *rhodomela* (Schw.) Ellis Pyren. Schwein. p. 3. In truncis in Amer. bor. Sporidia ellipsoidea, 8—12 = 5—7, opaca. Perithecia tomento subroseo tecta.
- *imposita* (Schw.) Ellis Pyren. Schwein. p. 4. In ramulis dejectis in Amer. bor. — Sporidia 18—24 = 6—8, brunnea. 685.
- *elaeicola* P. Henn. Fungi camer. I. p. 77. In foliorum vaginis putridis Elaeis guineensis, Kamerun.
- Sordaria clavata* Pat. Bull. Soc. mycol. 1895. p. 226. In detritis putridis in Aequatoria.
- *gregaria* Otth Bern. Mittheil. 1868. p. 49. In ligno putri pr. Bern, Helvetia.
- *pruinicola* Otth Bern. Mittheil. 1868. p. 49. In cortice Fagi pr. Bern, Helvetia.
- *elephantina* P. Henn. Fungi camer. I. p. 77. In fimo elephantino, Kamerun. 690.
- Anthostomella Lambottiana* Fautr. Rev. myc. 1895. p. 167. In trunco decorticato Persicae vulgaris, Côte-d'Or Galliae.
- *aziaca* Sacc. et Flag. (mox edenda). In caule emortuo Hellebori foetidi, Azé, Gallia.
- *albocincta* Ell. et Ev. Proc. Acad. Philad. 1895. p. 424. In culmis emortuis Arundinariae, Louisiana.
- Xylaria nutans* P. Henn. Fungi camer. I. p. 79. In truncis emortuis, Kamerun.
- *Telfairii* (Berk.) Sacc. Syll. I. p. 320. — var. *camerunensis* P. Henn. F. camer. I. p. 79. In truncis putridis, Kamerun. 695.
- *verruculosa* P. Henn. Fungi camer. I. p. 78. In truncis, Kamerun.
- *bidentata* Pat. Bull. Soc. mycol. 1895. p. 87. Ad ligna putrescentia, Congo.
- Hypoxylon ferrugineum* Otth. Bern. Mittheil. 1868. p. 41. In ramis emortuis Tiliae, Bern Helvetiae. — Pulvinatum, ferrugineum, grumosum, intus obscurius. Perithecia prominula, ostiis minutissime papillatis. Asci cylindrici, 8-spori, sporidia 13 = 7, nigricantia.
- *Eriodendri* P. Henn. Fungi camer. I. p. 78. In ramis emortuis Eriodendri anfractuosi, Kamerun.
- *californicum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 426. In ligno Adenostylis fasciculati, California. 700.
- Kretzschmaria sessilis* Pat. Bull. Soc. mycol. 1895. p. 223. In trunco putri in Aequatoria.
- Pyrenomyxa* Morg. New N. Am. Fungi, 1895. p. 42. (nov. gen.) Stromata pulvinata, carbonacea, superne cellulas stipatas, cylindraceas monostichas tenuimembranaceas, late inaequaliter apertas ferentia. Asci (jam resorpti?) Sporidia allantoides-navicularia, continua, brunnea.
- *invocans* Morg. l. c. tab. II fig. 15. In ligno indurato Caryae, Ohio Amer. bor. An forma abnormis?

### Sect. 3. Hyalosporae.

- Laestadia illicicola** Tracy et Earle Miss. Fungi, 1895. p. 101. In foliis Illicii floridani, Mississippi.
- **Calycotomes** Roll. Bull. Soc. mycol. 1896. p. 3. tab. II. fig. 3. In ramulis siccis Calycotomes spinosae, Golfe Juan Galliae. 705.
- **Cephalariae** (Auersw.) Sacc. — var. **Alternantherae** Sacc. Fl. mycol. Lusit. App. p. 61. In foliis Alternantherae sessiliis, St. Thomé.
- Physalospora Molluginis** (Otth) Sacc. Stigmata Molluginis Otth Bern. Mittheil. 1868. p. 57. In foliis caulibusque Galii Molluginis in Helvetia. — Sporidia  $10 = 2,5$ , hyalina.
- **Corni** E. et Ev. Proc. Acad. Philad. 1895. p. 421. In ramis emortuis Corni, Colorado.
- **latitans** Sacc. Fl. mycol. Lusit. p. 60. In foliis emortuis Eucalypti colosseae, Coimbra Lusitaniae.
- Trichosphaeria Sacchari** Massee Syll. XI. p. 294. Sec. Massee stat. conid. est Melanconii species, quae sec. Prill. et Delacroix est Coniothyrium melasporum (Berk.) Sacc. Cfr. Bull. Soc. myc. 1895. p. 80. tab. X.; sed reapse perithecium abesse videtur, hinc species aptius Mel. melasporum esset dicenda. 710.
- Wallrothiella conferta** Sacc. et Flag. (mox edenda). In ligno emortuo Tamaricis anglicae, Azé, Gallia.

### Sect. 4. Hyalodidymae.

- Sphaerella Menthae** Lamb. et Fautr. Rev. mycol. 1895. p. 170. In caulibus siccis Menthae silvestris, Côte-d'Or, Gallia.
- **Hystrix** Fautr. Rev. mycol. 1895. p. 170. In foliis Asprellae Hystricis cultae, Côte-d'Or, Gallia.
- **Bonae-noctis** Sacc. Fl. mycol. Lusit. App. p. 61. In foliis subviviis Ipomaeae Bonae-noctis, St. Thomé.
- **Cruciatae** Lamb. et Fautr. Rev. mycol. 1895. p. 170. In caulibus siccis Galii Cruciatae, Côte-d'Or, Gallia. 715.
- **ambigua** Fautr. et Lamb. Rev. mycol. 1895. p. 170. In caulibus siccis Cichorii Intybi, Côte-d'Or, Gallia.
- **Nicotianae** Ell. et Ev. Proc. Acad. Philad. 1895. p. 420. In cortice vivo Nicotianae, California.
- **vagans** E. et Ev. Proc. Acad. Philad. 1895. p. 421. In caule emortuo Valerianae silvaticae et Castillejae miniatae, Colorado.
- **syringaeicola** Otth Bern. Mittheil. 1870. p. 110. In foliis vivis Syringae vulgaris in Helvetia.
- **mazzantioides** Sacc. (mox edenda). In sarmentis semimortuis Vitis viniferae, Rigny, Gallia. 720.
- Didymella ailanthina** Togn. Seconda contr. Micol. tosc. p. 5. In cortice Ailanthi glandulosae in Etruria — Perithecia  $225 \mu$  diam., ostiolo obtuso. Asci  $80-90 = 11$ ; sporidia  $16-18 = 7-9$ , constricto-1-septata, bi-quadriguttata, hyalina.
- **Ricini** E. et Ev. Proc. Acad. Philad. 1895. p. 421. In petiolis emortuis Ricini communis, Louisiana.
- Melanopsamma borealis** Ell. et Ev. Proc. Acad. Philad. 1895. p. 416. In cortice interiore relaxato Abietis, Newfoundland.
- Venturia cinnamomata** (Schw.) Fr. Summa p. 405, Ellis Not. pyren. Schwein. p. 1., Sphaeria Schw. In foliis Vaccinii sp. in America bor.



- Venturia nervincola* Rehm Hedw. 1895. p. (162). In nervis foliorum *Melastomatis* sp., S. Jorge Aequatoriae. 725.
- Gibbera camerunensis* P. Henn. Fungi camer. I. p. 77. In lignis putridis, Kamerun.
- Diaporthe* (Chorostate) *pycnostoma* Otth Bern. Mittheil. 1870. p. 99. In ramis corticatis *Berberidis vulgaris* in Helvetia. — Sporidia 16 = 6, subconstricto-1-septata, 4-guttata, hyalina.
- — *Padi* Otth Bern. Mittheil. 1870. p. 99. In ramis corticatis *Pruni Padi* in Helvetia. — Sporidia constricto 1-septata, 14—16 = 5, hyalina, 2—4-guttata.
- — *flavo-virens* Otth Bern. Mittheil. 1868. p. 47. In ramis siccis *Coryli*, Bern, Helvetia.
- — *hyperopta* Nits. in Otth Bern. Mittheil. 1868. p. 47. In ramis siccis *Carpini* pr. Bern, Helvetia. 730.
- (*Euporthe*) *cornicola* Ellis et Holw. Bull. Hist. nat. Jowa 1895. p. 43. In ramis majusculis emortuis Corni paniculatae, Decorah Jowa. Perithecia 0,5—0,7 mm diam. corticola, ostiolis breviter cylindraceis vix emergentibus; asci 40—45 = 8, p. s.; sporidia octona 4-nucleata, hyalina, constricto-1-septata, 10—12 = 3,5—4,5.
- (*Tetrastaga*) *Othii* Nits. in Otth Bern. Mittheil. 1868. p. 45. In ramis emortuis Ulmi, Bern, Helvetia.
- — *Flageoletiana* Sacc. (mox edenda). In ramis corticatis *Calycanthi floridi* culti, Rigny, Gallia (*Flageolet*).
- — *Mühlenbeckiae* F. Tassi (mox edend.). In caulibus siccis *Mühlenbeckiae* complexae cultae in Italia.
- Melanconis*? *betulina* Otth Bern. Mittheil. 1868. p. 43. In ramis corticatis *Betulae pubescentis* in Helvetia. — Sporidia oblonga, obtusa, constricto-1-septata, fumosa, 15—16 = 6. Conidia non observata »An *Melanconiella*?«. 735.
- Endothia Nitschkei* Otth Bern. Mittheil. 1868. p. 48. In ramis emortuis *Tiliae grandifoliae* pr. Bern, Helvetia.

## Sect. 5. Phaeodidymae.

- Didymosphaeria Celtidis* E. et Ev. Proc. Acad. Philad. 1895. p. 421. In trunco emortuo *Celtidis occidentalis*, Kansas.
- *Cerasorum* (Fr.) Sacc. \**Did. padina* Sacc. (mox edend.). In ramis corticatis *Pruni Padi* pr. Rigny, Gallia.
- *sphaerophora* Ell. et Ev. Bull. Torr. Cl. 1895. p. 439. In *Agave*, Mexico.
- *Bambusae* Roll. Bull. Soc. myc. 1896. p. 4 tab. I. fig. 9. In culmis *Bambusae*, Golfe Juan Galliae. 740.
- Amphisphaeria Papilla* (Schw.) Ellis Not. Pyr. Schw. p. 4. Ad ligna putrida in Amer. bor.
- *rhodella* Pat. Bull. Soc. mycol. 1895. p. 225. In cortice vetusto in Aequatoria.
- *mobilis* (Schw.) Ellis Pyren. Schwein. p. 7. Ad ligna putrida in Amer. bor. — Sporidia 18—22 = 6—7, brunnea.
- *pilosella* E. et Ev. Proc. Acad. Phil. 1895. p. 418. In ligno dejecto arborum, Ohio.
- *confertissima* E. et Ev. Proc. Acad. Phil. 1895. p. 418. In ligno aeri diu exposito, Ohio. 745.
- Gaillardella* Pat. Bull. Soc. mycol. 1895. p. 226 (nov. gen.) Perithecia superficialia, cupuliformia, membranacea, crasse cellulosa, rugosa, glabra, ostiolata. Asci octospori; sporidia didyma, brunnea. Ad *Hypocreaceas* et *Perisporiaceas* quoque vergit, teste auctore.
- *pezizoides* Pat. l. c. In fragmentis ligneis putridis dejectis in Aequatoria.



**Melanconiella appendiculata** (Otth) Sacc. *Diaporthe appendiculata* Otth Bern. Mittheil. 1870. p. 100. In ramis corticatis *Aceris Platanoides* in Helvetia.  
— *Sporidia majuscula*, umbrina, constricto - 1 - septata, umbrina, 38 = 16, utrinque obtuse appendiculata. *Mel. acrocysti* (Peck) certe peraffinis.

**Valsaria pustulans** Rehm Hedw. 1895. p. (165). In truncis *Aceris campestris* pr. Zürich Helvetiae.

### Sect. 6. *Phaeophragmiae*.

**Leptosphaeria Menthae** Fautr. et Lamb. Rev. myc. 1895. p. 169. In caulibus siccis 750.  
*Menthae silvestris*, Côte-d'Or, Gallia.

— **Galii** (Otth) Sacc. *Pleospora Galii* Otth Bern. Mittheil. 1868. p. 56. In caulibus *Galiorum* in Helvetia.

— **concinna** Ell. et Ev. Proc. Acad. Philad. 1895. p. 423. In caule emortuo *Castillejae miniatae*, Colorado.

— **lethalis** Ell. et Ev. Proc. Acad. Philad. 1895. p. 423. In caule emortuo *Pentstemonis conferti*, Idaho.

— **Chelidonii** Fautr. Rev. mycol. 1895. p. 168. In caulibus siccis *Chelidonii majoris*, Côte-d'Or, Gallia.

— **curta** Sacc. et Flag. (mox edenda). In ramis emortuis *Rhois typhinae*, Rigny 755.  
Galliae.

— **rimicola** (Otth) Sacc. *Cladosphaeria* (Erumpentes) *rimicola* Otth Bern. Mittheil. 1870. p. 106. In ramis dejectis *Pruni avium* in Helvetia.— *Sporidia* 19—22 = 5—7, constricto-3-septata, fumoso-brunnea, disticha.

— **Piperis** P. Henn. Pilze Ostaf. p. 33. In foliis *Piperis capensis* in Africa tropica.

— **iridigena** Fautr. Rev. mycol. 1895. p. 168. In foliis siccis *Iridis Pseudo-Acori*, Côte-d'Or Galliae.

— **iridicola** Lamb. et Fautr. Rev. mycol. 1895. p. 168. In foliis gelu tactis *Iridis foetidissimae*, Côte-d'Or Galliae.

— **Bambusae** Roll. Bull. Soc. mycol. 1896. p. 4, tab. I. fig. 11. In culmis *Bambusae*, 760.  
Golf Juan Galliae.

— **stellata** Pat. Bull. Soc. mycol. 1895. p. 225. In truncis emortuis *Chusqueae* in Aequatoria.

**Pocosphaeria Chusqueae** Pat. Bull. Soc. mycol. 1895. p. 224. Ita vocenda *Protoventuria Chusqueae* Pat. (Syll. XI. p. 315) nam sporidia matura sunt 9-septata.

**Clypeosphaeria euphorbiicola** P. Henn. Pilze Ostaf. p. 32. In cortice *Euphorbiacearum* in Africa tropica.

**Melanomma nigricans** E. et Ev. Proc. Acad. Philad. 1895. p. 417. In ligno putri, Ohio.

— **boreale** E. et Ev. Proc. Acad. Philad. 1895. p. 416. In ligno aeri exposito, 765.  
Newfoundland.

— **subcongruum** E. et Ev. Proc. Acad. Philad. 1895. p. 417. In cortice *Populi moniliferae*, Kansas.

— **exile** (Schw.) Ellis. Pyren. Schwein. p. 3. Ad truncos in America bor. — *Sporidia* 3-septata, brunnea, 13—16 = 5—6.

**Trematosphaeria astroidea** (Fr.?) Ellis. Pyren. Schwein. p. 5. In ligno putri in America bor. — *Asci* non visi, sporidia 3—4-septata, brunneola, 14—15 = 3—3.5.

— **kilimandscharica** P. Henn. Pilze Ostaf. p. 32. In cortice arborum in Africa tropica.

— **Schweinitzii** E. et Ev. Pyren. Schwein. p. 6. In ramis *Rubi* sp. in America bor. 770.  
— *Sporidia* 19—22 = 5—6, brunnea, 3-septata.

— **confertula** (Schw.) Ellis. Pyren. Schwein. p. 6. In ligno putri in America bor.  
— *Sporidia* 3-septata, brunnea 18—22 = 6—7.

- Trematosphaeria** (Immersae) **demersa** Otth Bern. Mittheil. 1870. p. 108 (Cladosphaeria). In ramis corticatis Lonicerae Xylostei in Helvetia — Sporidia 5-septata, brunnea, utrinque albida, 6-guttata, 45 = 11.
- **elliptica** (Otth) Sacc. Xylosphaeria elliptica Otth Bern. Mittheil. 1868. p. 53. In radicibus decorticatis Abietis, Weissenburg, Helvetia.
- Pseudovalsa occulta** (Schw.) Ellis. Pyren. Schwein. p. 8. In ramis corticatis in Amer. bor. — Sporidia biseriata, 3-septata, demum brunnea, 45—62 = 13—16.
- Thyridaria rigniacensis** Sacc. et Flag. (mox edenda). In ramis corticatis emortuis Ulicis europaei, Rigny, Gallia.
- Melogramma Egelingii** Ell. et Ev. Bull. Torr. Cl. 1895. p. 440. In foliis emortuis Agaves, Mexico.
- **boreale** Ell. et Ev. Proc. Acad. Philad. 1895. p. 426. In cortice Abietis emortuae, Newfoundland.
- **olivascens** Otth Bern. Mittheil. 1870. p. 100. In ramis dejectis Fagi in Helvetia. — Sporidia fusioidea, curvula, 38—42 = 9, pallida, brunnea, 1-septata, 4-guttata.
- **aesculinum** Otth Bern. Mittheil. 1870. p. 101. In ramis Aesculi Hippocastani in Helvetia. — Sporidia 18 = 6, toruloso-3-septata, olivaceo-brunnea.

775.

#### Sect. 7. Hyalophragmiae.

- Metasphaeria** (Immersae) **fraxinicola** Otth Bern. Mittheil. 1870. p. 107 (Cladosphaeria). In ramis corticatis Fraxini in Helvetia. — Sporidia toruloso-trilocularia, hyalina, 17—20 = 6. \*Verisimiliter Melomastiae spec.
- **corylina** Ellis et Holw. Bull. Hist. Nat. Jowa 1895. p. 43. In ramis emortuis Coryli, Decorah Jowa Amer. bor. (Holway). — Perithecia tecta 0,5 mm diam. ostiolo papillato perforante; asci tereti-clavati 130—140 = 20, breve stipitati; sporidia 25—30 = 10—11, leniter constricta, 3-septata, hyalina.
- **quercina** Ell. et Ev. Proc. Acad. Philad. 1895. p. 423. In ramis emortuis Quercus coccineae var. tinctoriae, New Jersey.
- **Bambusae** Roll. Bull. Soc. myc. 1896. p. 3. tab. II. fig. 4. In cortice Bambusae, Golfe Juan Galliae.
- **Agaves** Roll. Bull. Soc. mycol. 1896. p. 4. tab. II. fig. 6. \*caulibus emortuis Agaves, Antibes Galliae.
- Charrinia** Viala et Rav. Compt. rend. 1894, 20 août, Zeitschr. für Pflanzenkrank. 1895. p. 116. — Perithecia sphaeroidea, late pertusa. Asci octospori, longe paraphysati. Sporidia 1—3-septata, hyalina. St. pycn.: Coniothyrium Diplodiella.
- **Diplodiella** Viala et Rav. l. c. In ramulis et racemis Vitis viniferae in Gallia, cultura provecta. Sporidia 15 = 3—4; asci 56  $\mu$  long. \*Potius Metasphaeria.
- Lasiosphaeria setosa** (Schw.) Ellis Pyren. Schw. p. 2, Sphaeria Schwein. N. A. F. n. 1533. In lignis putridis in Amer. bor.
- **emergens** (Schw.) Ellis Pyren. Schwein. p. 2, Sphaeria Schw., Syll. II. p. 405. In lignis cariosis in Amer. bor. — Sporidia hyalina, 28—32 = 4, demum probabiliter 3-septata.
- Acanthostigma Chusqueae** Pat. Bull. Soc. mycol. 1895. p. 226. In truncis putridis Chusqueae in Aequatoria.
- **scopulorum** E. et Ev. Proc. Acad. Philad. 1895. p. 414. In caulibus emortuis Ligustici scopulorum, Colorado.
- Herpotrichia purpurea** Ell. et Ev. Proc. Acad. Philad. 1895. p. 415. In culmis emortuis et foliis Deyeuxiae Suksdorfii, Washington.
- **Schiedermayriana** Fuck. — var **caldariorum** P. Henn. in Hedw. 1895. p. (102). In corbibus pineis in caldariis, Berlin.

780.

785.

790.

*Massarina eburnella* Sacc. (mox edenda). In ramis Carpini Betuli corticatis, Rigny Galliae.

*Calospora apatela* (Ellis et Holw.) Sacc., Valsa E. et Holw. Bull. Hist. Nat. Jowa 1895. p. 42. In ramis Caryae emortuis, Decorah Jowa Amer. bor. — Perithecia 6—10 in quoque stromate circinantia, 0,3—0,4 mm diam., ostioliis 4-sulcatis; asci 75—80 = 14—16; sporidia 25—40 = 6—8, fusioidea, 4-nucleata, dein constricto-3-septata, hyalina.

*Holstiella* P. Henn. Pilze Ostaf. p. 33. *Calosporae* affinis sed stromata superficialia et ostiola dein umbilicata. 795.

— *usambarensis* P. Henn. l. c. In ramis arboris cujusdam in Africa tropica.

### Sect. 8. Phaeodictyae.

*Pleospora coloradensis* Ell. et Ev. Proc. Acad. Philad. 1895. p. 422. In caule emortuo Polemonii conferti, Colorado.

— *juncicola* Ell. et Ev. Proc. Acad. Philad. 1895. p. 422. In calamo emortuo Junci baltici, Colorado.

*Teichospora* (Strickeria) *jungermannicola* C. Massal. Due nuov. piren. epaticicol. p. 5. t. III. fig. 1. In foliis vivis Jungermanniae Flörkei pr. Lugano in Helvetia italica.

— *nitida* E. et Ev. Proc. Acad. Phil. 1895. p. 419. In truncis emortuis Rubi deliciosi, Colorado. 800.

— *tenacella* (Schw.) Ellis Pyen. Schw. p. 6. *Sphaeria* Schw., Syll. II. p. 421. In ramis tenellis in Amer. bor.

— *minima* E. et Ev. Proc. Acad. Philad. 1895. p. 419. In ligno quercino, Kansas.

*Cucurbitaria subcaespitosa* Otth Bern. Mittheil. 1870. p. 103. In ramis Sorbi Ariae in Helvetia. — Sporidia 22 = 8, 4—6-septato-muriformia, fusco-fuliginea.

— *stenocarpa* E. et Ev. Proc. Acad. Philad. 1895. p. 420. In ramis emortuis Rhois diversilobae, California.

*Thyridium asserculorum* (Otth) Sacc. *Xylosphaeria asserculorum* Otth Bern. Mittheil. 1870. p. 104. In ligno pineo (asserculis) pr. Bern, Helvetia. — Sporidia 44—48 = 16—19, crebre clathrato-septata, fusco-brunnea. 805.

— *pallidum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 424. In ramis emortuis Rhois glabrae, Kansas.

*Fenestella Robiniae* Otth Bern. Mittheil. 1870. p. 100 (Thyridium). In ramis Robiniae in Helvetia. — Sporidia monosticha, fuliginea, 22—28 = 11—13, ellipsoidea, 7-septato-muralia.

### Sect. 9. Scolecosporae.

*Ophiobolus Helianthi* Ell. et Ev. Proc. Acad. Philad. 1895. p. 423. In caule emortuo Helianthi Maximiliani, Kansas.

— *herbarum* (Otth) Sacc. *Rhaphidophora herbarum* Otth Bern. Mittheil. 1868. p. 55. In caulibus Galli Molluginis et Isatidis tinctoriae in Helvetia. — Ostiolum teres erumpens. Sporidia filiformia, fuscidula, tenuiter multiseptata.

— *purpureus* Ell. et Ev. Proc. Acad. Philad. 1895. p. 424. In caulibus emortuis Umbelliferarum, Colorado. 810.

*Vialaea* Sacc. (nov. gen. mox edend.). — Stroma valseum, pustulatum; perithecia plura ostioliis breviusculis, vix convergentibus. Asci elongati octospori aparaphysati; sporidia praelonga, bifusioidea, h. e. utrinque acuta, medio angustata 1-septata, hyalina.

*Vialaea insculpta* (Fr.? Oudem.!) Sacc. *Sphaeria* Oud. Mat. mycol. Neerl. II. (1874) p. 63. t. VI. fig. 9! *Zignoella?* *insculpta* Sacc. Syll. II. p. 225. (ex charact. Friesianis). In ramis corticatis emortuis Ilicis Aquifolii, Rigny Galliae (Flageolet) et in Neerlandia (Oudemans).

Fam. 3. **Hypocreaceae** De Not.

- Nectriella Lophocolae** C. Massal. Due nuovi pirenom. epaticicol. p. 7. t. III. fig. 2. In foliis vivis Lophocolae cuspidatae in Alp. Apuane, Italia.
- Chilonectria flavovirens** (Otth) Sacc. Nectria (Cosmaria) flavovirens Otth. Bern. Mittheil. 1868. p. 57. In ramis tenuibus Aceris Pseudoplatani in Helvetia. — Asci clavati myriospori; sporidia 3 = 1, hyalina.
- Sphaeroderma damnosum** Sacc. in Berlese Rivista Pat. veget. 1895, n. 1—6, tab. VII—VIII. Ad basim culmorum, intra vaginas, Triticis sativi, quod late necat, Cagliari (Prof. Sante Cettolini). 814
- affine Sacc. et Fl. (mox edendum). In ligno fagineo putri udo, Rigny, Gallia.
- Hypomyces? epimyces** (Otth) Sacc. Sphaeria (Obturator?) epimyces Otth Bern. Mittheil. 1865. p. 166. In Corticio comedente ad ramos Quercus pr. Steffsburg, Helvetia. — Perithecia minuta, subgregaria, globosa, nigra, emergentia, demum seminuda v. subsuperficialia, ostiolo papillulato. Asci cylindraceuti, octospori. Sporidia monosticha, ellipsoideo-rotundata, fusca, continua, 10 = 8. Adest simul Sphacronoma (Zythia) epimyces (Fr.) Berk., statum pycnidicum sistens, teste Otth.
- Nectria alba** Pat. Bull. Soc. mycol. 1895. p. 227. In truncis putridis Chusqueae in Aequatoria.
- **pertusa** Pat. Bull. Soc. mycol. 1895. p. 227. In truncis Chusqueae in Aequatoria.
- **subinsularis** Pat. Bull. Soc. mycol. 1895. p. 227. In truncis Chusqueae in Aequatoria. 820
- **meliolopsicola** P. Henn. Pilze Ostaf. p. 32. In Meliolorpside usambarensi in Africa tropica.
- **Turraeae** P. Henn. Fungi camer. I. p. 75. Ad ramos vivos Turraeae Volkensii, Kilimandscharo, Africa.
- **Jungneri** P. Henn. Fungi camer. I. p. 75. Ad ramos, Kamerun.
- **fuscostoma** Annie Lorrain Smith in Journ. of Bot. 1895. p. 343. In vaginis Bambusarum in Africa orient.
- **moschata** Glück Hedw. 1895. p. 254. Ex mycelio Fusarii aquaeductuum culta, Halle, Germania. — Ejusdem Fusarii status ascophorus. 825
- **kermesina** Otth Bern. Mittheil. 1870. p. 109. In ramis Tiliae in Helvetia. — Sporidia 14—18 = 5—6,5, hyalina.
- **Opuntiae** Roll. Bull. Soc. myc. 1896. p. 5. tab. I. fig. 2. Ad fibras Opuntiae pr. Vallauris Galliae merid.
- Corallomyces elegans** Berk. et C. — var. **camerunensis** P. Henn. Fungi camer. I. p. 76. In lignis putrescentibus, Kamerun.
- Valsonectria andina** Pat. Bull. Soc. mycol. 1895. p. 227. In ramis emortuis Coriariae thymifoliae in Aequatoria.
- Hypocrea? Euphorbiae** Pat. Bull. Soc. mycol. 1895. p. 228. In truncis emortuis Euphorbiae in Aequatoria. 830.
- **rhizinaeformis** Pat. Bull. Soc. mycol. 1895. p. 88. tab. XI. fig. 5. Ad truncos, Congo.
- **Cornu-damae** Pat. Bull. Soc. mycol. 1895. p. 198. tab. XIII. fig. 1. In lignis putridis, Thibet orient.
- **alba** Annie Lorrain Smith in Journ. of Bot. 1895. p. 343. Ad ramos siccos in Africa orient.
- Letendrea luteola** Ell. et Ev. Proc. Acad. Philad. 1895. p. 415. In ligno putrescente, Ohio.
- Calonectria verrucosa** Pat. Bull. Soc. mycol. 1895. p. 228. In truncis putridis Chusqueae in Aequatoria. 835

- Calonectria* (Chiajaca) *Hippocastani* (Oth) Sacc. *Nectria* (Gibbera) *Hippocastani* Oth Bern. Mittheil. 1868. p. 57. In ramis *Hippocastani* in Helvetia. — Subgenus, quod a cl. phycologo neapolitano Delle Chiaje *Chiajae*am voco, dignoscitur sporidiis 3-septatis brunneis.
- Lisea violacea* (Lorr. Sm.) Sacc. *Gibberella violacea* Annie Lorrain Smith Journ. of Bot. 1895. p. 243. Ad cortices in Africa orientali.
- Gibberella Lagerheimii* Rehm Hedw. 1895. p. (163). Ad folia viva *Tessariae* sp., *Pichincha Aequatoriae*.
- Broomella Lagerheimii* Pat. Bull. Soc. mycol. 1895. p. 229. In foliis *Bambusaceae* »moya« dictae in *Aequatoria*.
- Balsania Jungneri* P. Henn. Fungi camer. I. p. 76. In ovariis *Panici* sp., Kamerun. 840.
- Cordyceps*? *Cusu* Pat. Bull. Soc. mycol. 1895. p. 229. In larva *Coleopteri* cujusdam ad terram in *Aequatoria*.
- Epichloe Volkensii* P. Henn. Pilze Ostaf. p. 32. In vaginis *Andropogonis exotheci* in Africa tropica.
- *Schumanniana* P. Henn. Pilze Ostaf. p. 32. In glumis *Andropogonis spec. e* sect. *Schizachyrii* in Africa tropica.
- *Oplismeni* P. Henn. Fungi camer. I. p. 76. In foliis deformatis *Oplismeni*, Kamerun.

#### Fam. 4. Dothideaceae Nits.

- Phyllachora crotonicola* P. Henn. Hedw. 1895. p. 322. In foliis *Crotonis* sp. in Brasilia. 845.
- *Plantaginis* Ell. et Ev. Proc. Acad. Philad. 1895. p. 427. In foliis *Plantaginis Rügeli*, Wisconsin.
- ? *Yuccae* Ell. et Ev. Bull. Torr. Cl. 1895. p. 440. In *Yucca angustifolia*, Mexico.
- *Desmodii* P. Henn. Pilze Ostaf. p. 34. In foliis *Desmodii Scalpe* in Africa tropica.
- *Hieronymi* P. Henn. Pilze Ostaf. p. 34. In foliis *Cyathea Dregei* in Africa tropica.
- *scanica* Starbäk et Rehm in Hedw. 1895. p. (162). In foliis *graminum* in Scandinavia. 850.
- Dothidella Adenocalymmatidis* P. Henn. Hedw. 1895. p. 323. In foliis *Adenocalymmatidis paulistarum* in Brasilia.
- *longissima* (Pers.) Ell. et Ev. Proc. Acad. Philad. 1895. p. 427. *Sphaeria longissima* Pers. Syn. p. 31. cfr. Syll. III p. 125. In caule emortuo *Chenopodii albi*, Kansas.
- *effusa* Annie Lorrain Smith. in Journ. of Bot. 1895. p. 343. Ad folia *Asclepiadis* in Africa orient.
- *Osyridis* (Cooke) B. et V. \* *D. Tassiana* Sacc. (mox edend.). In foliis *Pappeae capensis* ex Africa austr.
- Solirrhia lophodermioides* Ell. et Ev. Bull. Torr. Cl. 1895. p. 435. In culmis emortuis *graminum* in insula *Sandwich*. 855.
- Dothidea Emmoti* P. Henn. Hedw. 1895. p. 323. In foliis *Emmoti nitentis* in Brasilia.
- *forniculata* Oth Bern. Mittheil. 1870. p. 102. In ramis *Mori albae* in horto bot., Bern, Helvetia. — Asci clavati; sporidia 19 = 6, inaequaliter bilocularia, flavida.
- Plowrightia irregularis* (Oth) Sacc. *Dothidea irregularis* Oth Bern. Mittheil. 1870. p. 104. In ramis *Ribis floridi* in horto bot., Bern, Helvetia. Sporidia 19—22 = 8, bilocularia, hyalina, loculo sup. multo majore. »An forma *P. ribesia*?«.

*Homostegia coscinodisca* Ell. et Ev. Proc. Acad. Philad. 1895. p. 427. In cortice Betulae, Newfoundland.

*Myriogenospora* Atkins. Bull. Torr. Cl. 1894. p. 225 (nov. gen.). Stroma effusum, carbonaceum, pulvinatum; perithecia immersa, cum stromate confluentia, vix prominula. Asci cylindracei polyspori; sporidia elongata, continua, hyalina.

— *Paspali* Atkins. l. c. In culmis juvenilibus *Paspali levis* in America bor. — Sporidia fusioidea 15—25 = 5—8.

*Ophiodothis* (Dothichloë) *Aristidae* Atk. Bull. Torr. Cl. 1894. p. 224. In culmis, quos interdum ambit *Aristidae* purpurascens in Amer. bor. — Pro hac specie et pro *Hypocrella Hypoxylo* (= *Ophiodothis vorax*) cl. Atkinson condidit genus *Dothichloë*. Cfr. l. c. ubi et *Hypocrella tuberiformis* in nov. gen. *Echinodothis erigitur*.

### Fam. 5. *Microthyriaceae* Sacc.

*Myocopron fecundum* Sacc. Fl. mycol. Lusit. App. p. 62. In foliis subvivi *Craterispermii*, St. Thomé.

*Microthyrium concatenatum* Rehm. Hedw. 1895. p. (102). In foliis *Myrtaceae* cujusdam in Brasilia.

— *Jochromatis* Rehm Hedw. 1895. p. (162). In foliis *Jochromatis macrocalycis*, *Millegalli Aequatoriae*.

*Heterochlamys* Pat. Bull. Soc. mycol. 1895. p. 231 (nov. gen.). Stroma membranaceum, dimidiato-scutatum, pluri-pertuso-ostiolatum, *microthyriaceum*; perithecia hypostromatica, contextu atro coriaceo sphaeriaceo. Asci octospori; sporidia 3-septata, hyalina — A *Polystomella* sporidiis diversis recedit.

— *Chusqueae* Pat. l. c. In foliis vivi *Chusqueae* in Aequatoria.

*Seynesia rimosa* Pat. Bull. Soc. mycol. 1895. p. 230. In foliis non determinatis in Aequatoria.

— *disciformis* Pat. Bull. Soc. mycol. 1895. p. 230. In foliis arboris ignotae in Aequatoria.

— *Balansae* Speg. — var. *Ildefonsiae*. Rehm Hedw. 1895. p. (101). In foliis vivi *Ildefonsiae bibracteatae* in Brasilia.

*Micropeltis Leoniae* P. Henn. Hedw. 1895. p. 323. In foliis *Leoniae glycyarpae* in Peruvia.

### Fam. 6. *Lophiostomaceae* Sacc.

*Lophiostoma tingens* (Schw.). Ellis Pyren. Schw. p. 7, *Sphaeria* Schw., Syll. II. p. 411. In ligno decorticato *Lauri Sassafras* in Amer. bor. — Asci 110—120 = 15—18, sporidia 4—6-septata, demum brunnea 22—30 = 6—7.

— *ambiguum* Otth Bern. Mittheil. 1868. p. 54. In ramis emortuis *Crataegi* in Helvetia. — Sporidia 3-septata-torulosa, 4-guttata, olivaceo-brunnea, 16—18 = 6.

— *dakotense* Ell. et Ev. Proc. Acad. Philad. 1895. p. 42. In truncis decorticatis *Populi moniliferae*, Dakota. — An *Lophiotrema*?

— *clavisporum* E. et Ev. Proc. Acad. Philad. 1895. p. 419. In culmis *Elymi canadensis*, Kansas.

*Lophiotrema Dominici* Sacc. (mox edend.). In culmis *Phragmitis communis*, in Italia bor.

— *Phaeniceis* Roll. Bull. Soc. myc. 1896. p. 5. tab. I. fig. 5. In caudice *Phaeniceis*, Golfe Juan Galliae.

Fam. 7. **Hysteriaceae** Corda.

- Lembosia Prinoidea** Tracy et Earle Mississippi Fungi, 1895. p. 104. In foliis Ilicis coriaceae, Mississippi.
- **angustiformis** Tracy et Earle Mississippi Fungi, 1895. p. 104. In foliis Ilicis coriaceae, Mississippi.
- **illicicola** Tracy et Earle Mississippi Fungi, 1895. p. 104. In foliis Illicii floridani, Mississippi. 880.
- **quercina** (Ell. et Mart.) Tracy et Earle Mississippi Fungi, 1895. p. 105. Aulographum E. et M. — In foliis Quercus virentis, Mississippi.
- Pseudographis Volkensii** P. Henn. Fungi camer I. p. 80. In ramis vivis Turraeae Volkensii, Kilimandscharo, Africa.
- Gloniopsis larigna** Lamb. et Fautr. Rev. myc. 1895. p. 168. In ramulis Laricis europaeae, Côte-d'Or, Gallia.
- Hypoderma Ericae** Tubeuf Bot. Centralbl. 1885. p. 15, Rehm Disc. p. 1211. In foliis Ericae carnea in Tirolia.
- **Strobi** Otth Bern. Mittheil. 1868. p. 41. In ramulis siccis Pini Strobi, Bremgartenwald, Helvetia. — Ascomata nigro-fusca, recta v. incurva, margine introflexo, intus atra. Asci clavati, 8-spori. Sporidia acicularia,  $40 = 2$ , sursum obtusata. 885.
- Lophodermium Gentianae** Voglino Bull. Soc. bot. Ital. 1896. p. 41. In foliis Gentianae asclepiadeae, Canton Ticinò Helvetiae.
- Lophium Eriophori** P. Hennings Myk. Not. I (1895) p. 2. In foliis Eriophori vaginati in Grunewald, Germania. — Perithecia conchiformia,  $0,5-0,8 = 0,3-0,5$  mm rima long. dehiscentia, levia; asci  $180-220 = 12-14$ ; sporidia filiformia, pluriguttulato-septata, hyalina,  $100-130 \mu$  longa.
- Ostropa virens** Otth Bern. Mittheil. 1868. p. 55. In ramis Pruni spinosae, P. avium et P. Padi in Helvetia. — Perithecia viridula, rimoso-dehiscentia. Sporidia filiformia, hyalina, creberrime septata.

**Discomyceteae** Fr.

Sacc. Syll. Fungi VIII p. 3, X p. 1, XI p. 391.

Fam. 1. **Helvellaceae** Sw.

- Helvella** (Leptopodia) **alpestris** Boud. Bull. Soc. bot. Fr. 1894 p. CCXL. In declivibus herbidis, Zermatt, Helvetia.
- Verpa Sauteri** Rehm. Disc. p. 1199, V. pusilla Saut. Ad ligna, Salzburg. 890.
- Gyromitra brunnea** Unterwood Proc. Indiana Acad. 1893. p. 33. Ad terram humosam, umbrosam, Indiana Amer. bor. — Edulis.
- Microglossum lutescens** Bond. Bull. Soc. mycol. 1896. p. 14. tab. IV. fig. I. In argilloso-sabulosis silvaticis, Montmorency Galliae.
- Mitula roseola** Morg. New N. Am. Fungi p. 42. tab. III. fig. 16. In sabulosis, Columbia, Amer. bor.
- Leptoglossum latum** Peck Bull. Torr. bot. Cl. 1895. p. 210. In arenosis Labrador.

Fam. 2. **Pezizaceae** Fr.

- Peziza quitensis** Pat. Bull. Soc. mycol. 1895. p. 216 (Aleuria). In muro udo, Quito 895.  
Aequatoriæ.
- Discina? submembranacea** P. Henn. Hedw. 1895. p. 327. Ad terram arenosam, Transvaal.

- Lachnea maranguensis* P. Henn. Pilze Ostaf. p. 31. Ad terram udam gregatim in Africa trop.
- *ivalis* Boud. Bull. Soc. bot. Fr. 1894 p. CCXXXIX (Ciliaria). In pascuis alpinis ad finum vaccinum, Simplon.
- *Jungneri* P. Henn. Fungi camer. I. p. 74. Ad ligna putrida, Kamerun.
- *bicuspis* Bond. Bull. Soc. mycol. 1896. p. 11. tab. III. fig. I. (Ciliaria). Ad terram glareosam silvaticam Montmorency Galliae. 900
- Humaria rubens* Boud. Bull. Soc. mycol. 1896. p. 13. tab. II. fig. III. Ad terram arenosam muscosam, Bois de Beauchamp Galliae.
- Detonia nigrans* Morg. New N. Amer. Fungi, 1895. p. 43. tab. III. fig. 17 (Peziza). Ad terram ustam, Ohio Amer. bor.
- Barlaea* (Leptopeziza) *fuscobadia* Otth Bern. Mittheil. 1870 p. 94. Ad terram arenosam in Helvetia. — Sporidia echinulata, globosa, 13  $\mu$  diam. — Genus Leptopeziza Otth, si genuinum, distinguitur a typo Barlaeae ascomatibus, discoideis, bilobis, excipulo nullo.
- Neottiella Hetieri* Boud. Bull. Soc. mycol. 1896. p. 12. tab. III. fig. II. In montibus Jurae ad terram adustam (Hetier).
- Ciboria Liquidambaris* Ell. et Ev. Proc. Acad. Philad. 1895. p. 428. In capsulis dejectis Liquidambaris, Delaware. 905
- Hectium aurantiacum* P. Henn. Fungi camer. I. p. 73. Ad truncos et petiolos filicum, Kamerun.
- *camerunense* P. Henn. Fungi camer. I. p. 73. Ad ramos putres, Kamerun.
- *flexuosum* Massee British Fungi IV. p. 263. In culmis graminum, e. g. Dactylidis in Britannia.
- *spathicola* P. Henn. Fungi camer. I. p. 74. In vaginis putridis foliorum, Kamerun.
- Chlorosplenium striisporum* Ell. et Dearness Proc. Acad. Philad. 1895. p. 429. In foliis dejectis, Canada. 910
- Duplicaria acuminata* Ell. et Ev. Proc. Acad. Philad. 1895. p. 429. In calamis Junci Drummondi, Colorado.
- Pezizella pseudopezizoides* Rehm Disc. p. 1231. In foliis dejectis Euphorbiae dulcis in Germania.
- *albo-nivea* Rehm Disc. p. 1231. In foliis siccis Robiniae macrophyllae in Germania.
- *anonyma* Rehm Hedw. 1895 p. (165). In stromate Auerswaldiae (Valsariae) Baccharidis parasitica in Aequatoria.
- ? *Lyonsiae* Cobb. in Mc Alp. Arrang. Austral. Fungi p. 200 (Peziza). In foliis Lyonsiae reticulatae, N. South Wales Australiae. 915
- Mollisia Asclepiadis* Ell. et Ev. Proc. Acad. Philad. 1895. p. 428. In caule emortuo Asclepiadis, Canada.
- Pirottaea* (Mancinia) *setulosa* (M. et C.) Sacc. Echinella setulosa Massee et Crossl. British Fung. IV. p. 305. In ramis decorticatis vetustis Callunae vulgaris in Britannia. Genus Echinella et quia jam usurpatum et quia supra typum primarium Pirottaeae exstructum, non accipiendum.
- *Crosslandi* (Massee) Sacc. Echinella Crosslandi Massee British Fung. IV. p. 36. In ligno decorticato in Britannia.
- Dasyscypha scintillans* Massee British Fung. IV. p. 328. In foliis emortuis quercinis in Britannia.
- *Soppittii* Massee British Fung. IV. p. 330. In foliis emortuis dejectis quercinis in Britannia. 920
- Trichopeziza Fraxini* Boud. Bull. Soc. mycol. 1896. p. 15. tab. IV. fig. III. In ramis decorticatis Fraxini excelsioris, Montmorency Galliae.



- Blatorella microhaema* Norm., Rehm Disc. p. 1222. Ad ligna in Tirolia.
- Velutaria subsessilis* Annie Lorrain Smith in Journ. of Bot. 1895. p. 340. In corticibus vetustis in Africa orient.
- Phaeopezia splendens* Pat. Bull. Soc. mycol. 1895. p. 219. Ad ligna putrida in Aequatoria.
- Niptera turicensis* Rehm Disc. p. 1227. In foliis siccis Juniperi Sabinae in Helvetia. 925.
- *Nitschkei* (Körb.) Rehm Disc. p. 561. *Nesolechia* Körb. In thallo *Thelotrema* *lepadini* in Germania.
- *Lagerheimi* Pat. Bull. Soc. mycol. 1895. p. 216. In truncis *Chusqueae* in Aequatoria.
- Helotiella herpotrichoides* Rehm Hedw. 1891. p. (161). In pagina inferiore foliorum viventium *Gunnerae*, San Jorge Aequatoriae.
- Belonidium Chusqueae* Pat. Bull. Soc. mycol. 1895. p. 217. In truncis emortuis *Chusqueae* in Aequatoria.
- *microscopicum* Pat. Bull. Soc. mycol. 1895. p. 217. In mycelio *Perisporiaceae* cujusdam ad folia arborum, Aequatoria. 930.
- *andinum* Pat. Bull. Soc. mycol. 1895. p. 217. Ad ligna putrida, Aequatoria.
- *Schnablianum* Rehm Disc. p. 1228. In ramis decorticatis *Lonicerae nigrae* in Bavaria.
- *pulvinatum* Boud. Bull. Soc. mycol. 1896. p. 14. tab. IV. fig. II. In calamis putridis *Junci capitati*, Montmorency Galliae.
- Belonium Wagnerianum* Rehm Disc. p. 1230 (*Beloniella*). In *Opuntia Rafinesquiana* culta, putrescente, Schmilka, Germania (Wagner).
- *orbilioides* Rehm Disc. p. 1232. In caulibus siccis *Umbelliferarum* in Helvetia. — 935.
- Solenopezia tetraspora* P. Henn. Pilze Ostaf. p. 30. In thallo *Physciae integratae* in Africa trop.
- Erinella viridula* Pat. Bull. Soc. mycol. 1895. p. 218. In ramulis emortuis in Aequatoria.
- Pocillum Needhami* Massee et Crossl. British Fung. IV. p. 498. In foliis dejectis, *Salicis capreae* (?) in Britannia.

### Fam. 3. *Ascobolaceae* Boud.

- Ascobolus roseo-purpurascens* Rehm Disc. p. 1122. In fimo cervino in Saxonia.
- *Winterii* Rehm Disc. p. 1124. In stercore anserino in Germania. Var. *mancus* Rehm Disc. l. c. In stercore *Cuniculi* in Germania. 940.
- Boudierella* Sacc. in March. Champ. copr. VII. p. 130 (nov. gen.). Ab affini *Boudiera* recedit sporidiis hyalinis, quaternis, ascis longitrorsus dehiscentibus.
- *cana* March. l. c. p. 131. t. I. fig. 4. In fimo vulpino in Arduennis.

### Fam. 4. *Dermateaceae* Fr.

- Dermatea olivacea* Otth Bern. Mittheil. 1868. p. 40. In ramis siccis *Pruni avium* in Helvetia. — *Ascomata* flavo-fulvida, disco glauco-olivascens. Asci clavati, 8-spori. Sporidia 16—18 = 5—6, subhyalina, 4-guttata; paraphyses lineares diluta flavidae.
- *Pini* Otth Bern. Mittheil. 1868. p. 40. In truncis *Abietis excelsae* dejectis pr. *Steffisburg* Helvetiae. — *Ascoma* subpiriformia, atra, cartilaginea, caespitose erumpentia, disco explanato-cavo. Asci anguste clavati, paraphysati; sporidia . . . (immatura visa). — Status *pycnidicus* l. c. describitur.
- *Betulae* Rehm Disc. p. 1221. In cortice *Betulae* et *Juniperi* in Germania. 945.
- Cenangium rosaceum* Rehm Disc. p. 1220. In ramulis siccis *Hippophaë* *rhamnoidis* in Helvetia.

- Cenangium conglobatum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 428. In ramis emortuis arborum et fruticum, Newfoundland.
- *australe* Pat. Bull. Soc. mycol. 1895. p. 219. In lignis putridis in Aequatoria.
- *biparasiticum* Pat. Bull. Soc. mycol. 1895. p. 219. In peritheciis Perisporiaceae cujusdam ad folia arborum in Aequatoria.
- *abietina* Ell. et Ev. Proc. Acad. Philad. 1895. p. 429. In cortice Abietis emortuae, Newfoundland. 950
- Scleroderis Spiraeae* Rehm Disc. p. 1220. In ramulis siccis Spiraeae ariifoliae in Germania.
- *coerulea* Pat. Bull. Soc. mycol. 1895. p. 220. Ad ramos corticatos putres in Aequatoria.
- *rubra* Morg. New N. Amer. Fungi, 1895. p. 43. tab. III, fig. 18. In ramis emortuis Asiminae trilobae, Ohio Amer bor.

Fam. 5. **Bulgariaceae** Fr.

- Ombrophila subsqualida* Rehm Disc. p. 1226. In foliis putridis Alni glutinosae et Populi tremulae in Germania.
- *dermatoides* Rehm Disc. p. 1226. In foliis putrescentibus Salicum in Germania. 955
- Orbilia flavido-roseola* Rehm Disc. p. 1224. In caulibus siccis Vincetoxici officinalis in Germania.
- *andina* Pat. Bull. Soc. mycol. 1895. p. 218. In truncis putridis Chusqueae in Aequatoria.
- Calloria trichorosella* Rehm Disc. p. 1225. In caulibus siccis Cirsii spinosissimi in alpiibus, Helvetia.

Fam. 6. **Stictidaceae** Fr.

- Ocellaria succinea* Massée British Fung. IV. p. 83. In cortice fagineo in Britannia.
- Propolis viridis* Duf. ap. Roll. Bull. Soc. mycol. 1896. p. 1. tab. I. fig. 1. Ad radices Ericae arboreae etc. pr. Cannes Galliae. 960.
- Naevia Belladonnae* Rehm Disc. p. 1216. In caulibus siccis Atropae Belladonnae in Germania.
- Phragmonaevia Chaerophylli* Rehm Disc. p. 1218. In caulibus siccis Chaerophylli aromatici in Saxonia.
- Stictis corticioides* Pat. Bull. Soc. mycol. 1895. p. 220. Ad ligna putrida Aequatoriae.
- *Rubiacearum* Pat. Bull. Soc. mycol. 1895. p. 220. In foliis Rubiaceae cujusdam in Aequatoria.
- Melittosporium lichenicolum* (Mont.) Massée British Fung. IV. p. 88. Stictis Mont. 965.
- In thallo Cladoniae pyxidatae etc. in Britannia.
- Schizoxylon andinum* Pat. Bull. Soc. mycol. 1895. p. 220. Ad fragmenta dejecta in Aequatoria.

Fam. 7. **Phacidaceae** Fr.

- Phacidium Populi* Lasch, Rehm Disc. p. 1212. In foliis putridis Populi in Germania. — Dubia species.
- Pseudopeziza Kriegeriana* Rehm Disc. p. 1229. In frondibus putrescentibus Struthiopteridis germanicae in Helvetia saxonica.
- Trochila Astragali* Rehm Disc. p. 1215. In caulibus siccis Astragali glycyphylli in Germania.
- Cocconia kilimandscharica* P. Henn. Pilze Ostaf. p. 31. In foliis et inflorescentia Mayepeae Gilgiana, Kilimandscharo, Africa. 970.

Fam. 8. **Patellariaceae** Fr.

- Patellea hysterioides* Ell. et Ev. Proc. Acad. Philad. 1895. p. 429. In ligno pineo aeri diu exposito, Kansas.  
*Pseudophaacidium necans* Rehm. Disc. p. 1213. In ramulis siccis Coryli Avellanae; Corni sanguineae et Pruni spinosae in Helvetia.  
 — *Hellebori* Rehm Disc. p. 1214. In foliis Hellebori altifolii in Carniolia.  
 — *Couepiae* P. Henn. Hedw. 1895. p. 324. In foliis Couepiae formosanae in Brasilia.  
*Karschia Taveliana* Rehm. Disc. p. 1223. Ad ligna putrida in Helvetia. 975.  
 — *tegularum* (Arnold) Rehm. Disc. p. 1223. In thallo Blasteniae arenariae in tegulis in Bavaria.  
 —? *fulvo-disca* Pat. Bull. Soc. mycol. 1895. p. 218. In corticibus arborum Aequatoriae.  
*Blitrydium Punctum* Pat. Bull. Soc. mycol. 1895. p. 87. In cortice Tamarindi in Aegypto.

Fam. 9. **Gymnoascaceae** Bar.

- Exoascus acerinus* Eliasson Taphr. acerin. Stockholm 1895. p. 3, cum tab. In foliis Aceris Platanoidis pr. Upsala, Suecia.

Fam. 10. **Phymatosphaeriaceae** Spag.

- Ascomycetella quitensis* Pat. Bull. Soc. mycol. 1895. p. 231. In foliis Cordiaceae cujusdam in Aequatoria. (= Henningsiella quitensis Rehm [nov. gen.] Hedwig. 1895 p. (160).) 980.

**Tuberoideae** Vitt.

Sacc. Syll. Fung. VIII p. 868, X p. 80, XI p. 441.

- Terfezia Goffartii* Chat. Compt. rend. 1895, 1 juill. Ad terram sabulosam, Tanger (J. Goffart). — Sporidia aculeata, dilute colorata, 25  $\mu$  diam. (sine aculeis).  
 — *Hanotauxii* Chat. Compt. rend. 1895. 18 nov. Ad terram Teheran Persiae (Balloy). — Sporidia areolata et grosse obtuseque verrucosa, 23—25  $\mu$  diam. hyalino-flavida.  
 — Pfeilli P. Henn. Fungi camer. I. p. 75. Ad terram Damaraland, Africa.  
*Mylitta australis* Berk. Cfr. Bomm. et Ferry in Rev. myc. 1895. p. 162, ubi singularis fungus ut ascophorus (e Tuberaceis) simul et basidiophorus illustratur; quod tamen, ut opinor, novis observationibus confirmari meretur.

**Laboulbeniaceae** Peyr.

Sacc. Syll. Fung. VIII p. 909, IX p. 1130, XI p. 446.

- Laboulbenia gigantea* Istvanffi in Beihefte zum bot. Centralbl. 1895. p. 327. In elytris, pedibus thoraceque Pristonychi cavicolae in Croatia. 985.

**Saccharomycetaceae** Reess.

Sacc. Syll. Fung. VIII p. 916, XI p. 456.

- Schizosaccharomyces Pombe* Lindn. in Wochenschr. f. Brauerei 1893 p. 1298 cfr. P. Hennings Pilz. Ostaf. p. 30. In cerevisia nigritarum (Pombé) in Africa tropica.

## Myxomyceteae Wallr.

Sacc. Syll. Fung. VII p. 323, X p. 83, XI p. 462.

- Didymium Anellus* Morgan Myxom. Miami Vall. p. 64. tab. XII. fig. 41. In foliis vetustis in silvis Amer. bor.
- *minus* Lister ap. Morgan Myx. Miami Vall. p. 61. tab. XII. fig. 39. In foliis, corticibus, lignis etc. in America boreali.
- *cinereum* Morgan Myxom. Miami Vall. p. 70. tab. XII. fig. 46. In lignis et foliis putrescentibus in America boreali.
- Chondrioderma quitense* Pat. Bull. Soc. mycol. 1895. p. 212. Ad folia putrida dejecta 990.  
in Aequatoria.
- Reticularia nitens* Morg. New N. Amer. Fungi, 1895. p. 40. tab. II. fig. 11. In corticibus vetustis, Pasadena Californiae.
- Lycogala repletum* Morg. New N. Amer. Fungi, 1895. p. 40. tab. II. fig. 13. Ad terram in M. S. Bernardino Californiae.
- Diachea Thomasii* Rex in Morgan Myxom. Miami Vall. p. 57. In frustulis, foliis etc. in America boreali.
- Comatricha Ellisii* Morgan Myxom. Miami Vall. p. 49. tab. XI. fig. 29. In ligno pineo vetusto in Amer. bor.
- *flaccida* Lister ap. Morg. Myx. Miami Vall. p. 51. In lignis et corticibus vetustis Quercus, Salicis etc. in America bor. 995.
- *crypta* (Schw.) Morgan Myxom. Miami Vall. p. 50. tab. XI. fig. 30. In rimis corticis Aceris, Caryae etc. in Amer. bor.
- *caespitosa* Sturgis ap. Morg. Myx. Miami Vall. p. 50. In muscis et lichenibus in America bor.
- Stemonites microspora* Lister ap. Morgan Myx. Miami Vall. p. 54. In lignis, corticibus, foliis in America bor.
- *Webberi* Rex ap. Morgan Myx. Miami Vall. p. 55. In lignis et corticibus vetustis in America boreali.
- Hemiarcyria montana* Morg. New N. Amer. Fungi, 1895. p. 40. tab. II. fig. 12. In lignis vetustis, gregatim, in M. S. Bernardino Californiae. 1000.

## Sphaeropsideae (Lév.) Sacc.

Sacc. Syll. Fung. III p. 1, X p. 100, XI p. 472.

- Phyllosticta Rudbeckiae* Ell. et Ev. Proc. Acad. Philad. 1895. p. 430. In foliis Rudbeckiae laciniatae, Wisconsin.
- *alpina* Allesch. Hedw. 1895. p. 257. In foliis languidis Arabidis alpinae in Bavaria austral.
- *Strychni* Allesch. in P. Henn. Pilze Ostaf. p. 35. In foliis Strychni Stuhlmanni in Africa tropica.
- *amicta* Ell. et Ev. Proc. Acad. Philad. 1895. p. 430. In foliis Arctostaphyli viscidiae et A. Manzanitae in California.
- *solitaria* Ell. et Ev. Proc. Acad. Philad. 1895. p. 430. In foliis Piri coronariae, Indiana. 1005.
- *castanicola* Ell. et Ev. Proc. Acad. Philad. 1895. p. 431. In foliis Castaneae chrysophyllae, California.
- *Scaevolae* Ell. et Ev. Bull. Torr. Cl. 1895. p. 436. In foliis Scaevolae Chamisso-nianae in insula Sandwich?
- *Trillii* Ell. et Ev. Proc. Acad. Philad. 1895. p. 430. In foliis Trillii petiolati, Washington.

- Phyllosticta Stanhopeae* Allesch. Hedw. 1895. p. 215. In foliis Stanhopeae in calidariis, München.
- Phoma Arabidis-alpinae* Allesch. Hedw. 1895. p. 259. In caulibus emortuis Arabidis alpinae in Bavaria australi. 1010.
- *Hyperici* Allesch. Hedw. 1895. p. 259. In caulibus emortuis Hyperici montani in Bavaria australi.
- *Clinopodii* Allesch. Hedw. 1895. p. 260. In caulibus emortuis Clinopodii vulgaris in Bavaria australi.
- *Cucubali-bacciferi* Allesch. Hedw. 1895. p. 260. In caulibus Cucubali bacciferi in Bavaria australi.
- *sphaeronaemoides* Fautr. Rev. mycol. 1895. p. 169. In caulibus siccis Chelidonii majoris, Côte-d'Or, Gallia.
- *Knautiae* F. Tassi (mox edend.). In caulibus Knautiae arvensis in Italia. 1015.
- *Fraxinellae* F. Tassi (mox edend.). In caulibus exsiccatis Dictamni Fraxinellae in Italia.
- *Ichnocarpi* F. Tassi (mox edend.). In ramulis Ichnocarpi fragrantis culti in Italia.
- *Stephanotidis* F. Tassi (mox edend.). In ramulis siccis Stephanotidis floribundae cultae in Italia.
- *Nandinae* F. Tassi (mox edend.). In ramulis corticatis Nandinae domesticae cultae in Italia.
- *cornigena* F. Tassi (mox edend.). In stipulis vivis Acaciae (Mimosa) cornigerae cultae in Italia. 1020.
- *Bumeliae* F. Tassi (mox edend.). In ramulis emortuis Bumeliae lycioidis cultae in Italia.
- *peduncularis* F. Tassi (mox edend.). In pedunculis siccis Hibisci Rosa-sinensis culti in Italia.
- *candidula* D. Sacc. Piant. spont. O. B. P. 1896., p. 26, Tav. I. n° 2. In ramulis tenellis Corni albae, Italia.
- *Idesiae* Fr. Sacc., in D. Sacc. Piant. spont. O. B. P. 1896., p. 26, Tav. I° n° 3. In ramulis corticatis Idesiae polycarpae, Padova, Italia.
- *Calycotomes* Roll. Bull. Soc. myc. 1896. p. 6. tab. II. fig. 10. In ramis siccis Calycotomes spinosae, Golfe Juan Galliae. 1025.
- *australis* Cooke Grev. XV. p. 17 (1886). In foliis Eucalypti, Victoria Australiae.
- *Achilleae* Sacc. — Ph. Dahliae Sacc. Fl. mycol. Lusit. p. 60. In caulibus emortuis Dahliae variabilis, Coimbra Lusitaniae.
- *Allioniae* Bres. in Sacc. Fl. mycol. Lusit. p. 60. In caulibus Allioniae violaceae, Coimbra Lusitaniae.
- *Litoris* Sacc. (mox edend.). In culmis putrescentibus Phragmitis communis, Lido di Venezia in Italia bor.
- Macrophoma leucorrhodia* Sacc. (mox edenda). In ramis corticatis Ulmi campestris, Rigny Galliae. 1030.
- Pyrenochaeta Cesatiana* Sacc. et Flag. Phoma Flag. Syll. XI. p. 491. In caulibus emortuis Echii vulgaris, Rigny Galliae.
- *Bergevini* Roll. Bull. Soc. mycol. 1896. p. 7. tab. II. fig. 8. Ad fibras caulium Aspidistrae, Neuilly Galliae.
- Aposphaeria Lampsanae* Allesch. Hedw. 1895. p. 261. In caulibus decorticatis Lampsanae communis in Bavaria australi.
- *ohiensis* Ell. et Ev. Proc. Acad. Philad. 1895. p. 431. In ligno putri, Ohio.
- *Boudieri* Roll. Bull. Soc. mycol. 1896. p. 6. tab. II. fig. 2. In cortice Posidoniae oceanicae, Golfe Juan Galliae. 1035.
- Asteroma Parkinsoniae* Ell. et Ev. Proc. Acad. Philad. 1895. p. 431. In leguminibus Parkinsoniae Torreyanae, Arizona.

- Sphaeronaema Ludwigii* Sacc. (mox edend.). In ligno Castaneae vescae pr. Greiz, Germania.
- Sirococcus Posidoniae* Roll. Bull. Soc. mycol. 1896. p. 6. tab. II. fig. 11. In cortice Posidoniae oceanicae, Golfe Juan Galliae.
- Asteroma Menispermii* Allesch. Hedw. 1895. p. 216. In foliis Menispermii canadensis culti, München.
- *Brunellae* Allesch. Hedw. 1895. p. 263. In foliis Brunellae vulgaris in Bavaria australi. 1040.
- *dubium* Allesch. Hedw. 1895. p. 263. In caulibus Astrantiae majoris et Bupleuri longifolii in Bavaria australi.
- *infuscans* Ell. et Ev. Proc. Acad. Philad. 1895. p. 431. In caule emortuo Ivae xanthifoliae, Colorado.
- *Eupatorii* Allesch. Hedw. 1895. p. 264. In foliis Eupatorii cannabini in Bavaria australi.
- *Piperis* Allesch. Pilze Ostaf. p. 35. In foliis Piperis capensis in Africa tropica.
- *Codiaei* Allesch. in Zeitsch. f. Pflanzenkr. 1895. p. 276. In foliis languescentibus Codiae picti culti in Germania. 1045.
- Vermicularia Stachydis* Tracy et Earle Mississippi Fungi, 1895. p. 108. In caulibus Stachydis affinis, Mississippi.
- Dothiorella Crataegi* Ell. et Ev. Proc. Acad. Philad. 1895. p. 432. In ramis emortuis Crataegi Oxyacanthae, Canada.
- Placosphaeria inaequalis* F. Sacc. in D. Sacc. Piant. spont. O. B. P. 1896, p. 26, tav. I. n° 4. In ramis Tecomae grandiflorae, Italia bor.
- Cytospora Abrotani* Fautr. Rev. myc. 1895. p. 167. In ramulis siccis Artemisiae Abrotani, Côte-d'Or Galliae.
- Fusicoccum quercinum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 432. In ramis emortuis Quercus coccineae var. tinctoriae, New Jersey. 1050.
- Capnodiastrum andinum* Pat. Bull. Soc. mycol. 1895. p. 231. In foliis arboris ignotae in Aequatoria.
- Haplosporella Francisci* D. Sacc. Piant. spont. O. B. P. 1896, p. 27, tav. I. n° 5. In ramulis corticatis emortuis Rhamni cathartici, Padova, Italia.
- *mexicana* Ell. et Ev. Bull. Torr. Cl. 1895. p. 440. In ramis emortuis Magnoliae mexicanae, Mexico.
- Coniothyrium Cedri* Roll. Bull. Soc. mycol. 1896. p. 7. fig. 8. In strobilis Cedri pr. Paris Galliae.
- Pirostoma coniothyrioides* Sacc. (mox edend.). In foliis Scirporum in Italia bor. 1055.
- Diplodia Sassafra* Tracy et Earle Mississippi Fungi, 1895. p. 109. In ramis vivis Sassafra, Mississippi.
- *minuta* Tracy et Earle Mississippi Fungi, 1895. p. 109. In ramis vivis Tecomae radicantis, Mississippi.
- *cacaoicola* P. Henn. Fungi camer. I. p. 80. In ramis morboris Theobromae Cacao, Kamerun.
- *Laureolae* Fautr. Rev. mycol. 1895. p. 168. In ligno vivo caeso, dein exsiccato Daphnes Laureolae, Côte-d'Or Galliae.
- *celastrina* Ell. et Ev. Proc. Acad. Philad. 1895. p. 432. In ramis emortuis Celastris scandentis, Kansas. 1060.
- *Cacti* Roll. Bull. Soc. mycol. 1896. [p. 7. tab. I. fig. 6. In cladodiis Cacti opuntiae, Golfe Juan Galliae.
- *Calycotomes* Roll. Bull. Soc. Mycol. 1896. p. 7. tab. I. fig. 4. Ad ramulos Calycotomes spinosae, Golfe Juan Galliae.
- *Umbellulariae* Ell. et Ev. Prov. Acad. Philad. 1895. p. 433. In ramis emortuis Umbellulariae californicae, California.

- Diplodia officinalis* Ell. et Ev. Proc. Acad. Philad. 1895. p. 433. In ramis emortuis *Sassafras officinalis*, New Jersey.
- *Fabianae* F. Tassi (mox edend.). In ramulis *Fabianae imbricatae cultae* in Italia bor. 1065.
- *Saccardiana* F. Tassi (mox edend.). In caulibus *Solani jasminoidis culti* in Italia bor.
- *Styracis* F. Tassi (mox edend.). In ramulis siccis *Styracis officinalis culti* in Italia bor.
- *Mühlenbeckiae* F. Tassi (mox edend.). In ramulis *Mühlenbeckiae complexae cultae* in Italia.
- *elaeagnella* F. Tassi (mox edend.). In ramulis emortuis *Elaeagni reflexae cultae* in Italia.
- *Bignoniae* F. Tassi (mox edend.). In ramulis emortuis *Bignoniae capreolatae cultae* in Italia. 1070.
- *Thevetiae* F. Tassi (mox edend.). In drupa *Cerberae Thevetiae* in India occid.
- *Camphorae* F. Tassi (mox edend.). In ramis *Camphorae officinarum cultae* in Italia.
- *aegyptiaca* F. Tassi (mox edend.). In fructibus *Anonae Forskalei*, Cairo Aegypti.
- Diplodiella Camphorae* D. Sacc. Piant. spont. O. B. P. 1896 p. 27. Tav. I. n° 6. In disco ramorum caesorum *Camphorae officinarum*, Padova, Italia.
- (*Pellionella*) *Cardonia* Flag. et Sacc. (mox edenda). In caule decorticato putri *Brassicae oleraceae*, Rigny Galliae. 1075.
- Botryodiplodia ostiolata* Ell. et Ev. Proc. Acad. Philad. 1895. p. 433. In cortice emortuo *Quercus albae*, Ohio.
- *Sorghi* P. Henn. Pilze Ostaf. p. 34. In culmis *Sorghi* in Africa tropica.
- Ascochyta Arundinis* Fautr. et Lamb. Rev. myc. 1895. p. 167. In foliis siccis *Phragmitis communis*, Côte-d'Or Galliae.
- *Convolvuli* Fautr. Rev. myc. 1895. p. 167. In caulibus siccis *Convolvuli arvensis*, Côte-d'Or Galliae.
- *Julibrissin* F. Tassi (mox edend.). In leguminibus *Albiziae Julibrissin cultae* in Italia. 1080.
- *Arundinariae* F. Tassi (mox edend.). In foliis siccis *Arundinariae falcatae cultae* in Italia.
- *zeicola* Ell. et Ev. Proc. Acad. Philad. 1895. p. 433. In culmo vetusto *Zeae Maydis*, New Jersey.
- Diplodina Malvae* Togn. II. Contr. Micol. Tosc. p. 12. In caule *Malvae moschatae* in Etruria.
- *antiqua* Fr. Sacc. in D. Sacc. Piant. spont. O. B. P. 1896, p. 27, Tav. I. n° 7. In ramulis tenellis antiquissimae *Vitidis Agni-Casti*, Padova, Italia.
- *Baccharidis* D. Sacc. Piant. spont. O. B. P. 1896. p. 27, Tav. I. n° 8. In ramulis emortuis *Baccharidis halimifoliae*, Padova, Italia. 1085.
- *coloradensis* Ell. et Ev. Proc. Acad. Philad. 1895. p. 434. In caule emortuo *Gutierreziae Enthamiae*, Colorado.
- (*Ambrosiella*) *olodiensis* Sacc. (mox edenda). In culmis siccis *Arundinis Donacis*, in Italia bor.
- Hendersonia nitida* Ell. et Ev. Bull. Torr. Cl. 1895. p. 436. In foliis vivis *Myrsines* in insula Sandwich.
- *taphrinicola* Tracy et Earle Mississippi Fungi 1895. p. 110. In *Taphrina vetusta* ad folia *Quercus viventis*, Mississippi.
- *importata* Allesch. Hedw. 1895. p. 216. In bulbis *Orchidearum* in calidariis cultarum, München. 1090.
- Hendersonula Aristidae* (Schw.) Ellis in Tracy et Earle Miss. Fungi 1895. p. 110. *Sphaeria* Schwein. In foliis *Aristidae purpurascens*, Mississippi.



- Stagonospora* (Paolettia) *mucipara* Sacc. (mox edenda). In culmis emortuis *Phragmitis communis* in Italia bor.
- Septoria* *Lablabis* P. Henn. Pilze Ostaf. p. 34. In foliis *Dolichi Lablabis* in Africa tropica.
- *Phytolaccae* Pat. Bull. Soc. mycol. 1895. p. 232. In foliis *Phytolaccae* sp. in Aequatoria.
- *Monninae* Pat. Bull. Soc. mycol. 1895. p. 232. In foliis *Monninae* sp. in Aequatoria. 1095.
- *Aphaniae* P. Henn. Hedw. 1895. p. 334. In foliis *Aphaniae senegalensis* in *Erythraea*, Africa.
- *coffeicola* P. Henn. Fungi camer. I. p. 80. In foliis, quae maculantur, *Coffeae libericae*, Kamerun.
- *curvispora* Ell. et Ev., N. A. F. n. 3270. Proc. Acad. Philad. 1895. p. 434. In foliis *Aceris glabri*, California.
- *variegata* Ell. et Ev. Proc. Acad. Philad. 1895. p. 434. In foliis *Rhamni Purshianae*, California.
- *quercina* Fautr. Rev. mycol. 1895. p. 170. In foliis *Quercus pedunculatae*, 1100.  
Côte-d'Or Galliae.
- *Listerae* Allesch. Hedw. 1895. p. 272. In foliis *Listerae ovatae* in Bavaria australi.
- *Colchici* Fautr. Rev. mycol. 1895. p. 169. In foliis *Colchici autumnalis*, Côte-d'or Galliae.
- *Asplenii* Ell. et Ev. Proc. Acad. Philad. 1895. p. 434. In foliis *Asplenii angustifolii*, Michigan.
- Rhabdospora* *Schnablina* Allesch. Hedw. 1895. p. 273. In foliis caulibusque *Erigerontis alpiniae* in Bavaria inf.
- *Tabacco* Fautr. Rev. mycol. 1895. p. 169. In caulibus siccis *Nicotianae* 1105.  
*Tabaci*, Côte-d'or Galliae.
- *norvegica* Fautr. Rev. mycol. 1895. p. 169. In caulibus siccis *Potentillae norvegicae*, Côte-d'or Galliae.
- *Clinopodii* Allesch. Hedw. 1895. p. 273. In caulibus *Clinopodii vulgaris* in Bavaria inf.
- *Gomphocarpi* F. Tassi (mox edend.). Ad caules exsiccatos *Gomphocarpi fruticosi* culti in Italia bor.
- Phleospora* *Bigeloviae* Ellis in Contrib. U. S. Nation. Herb. IV. p. 232. In foliis *Bigeloviae*, California.
- *californica* Ell. et Ev. Proc. Acad. Philad. 1895. p. 435. In foliis *Aceris californici*, California. 1110.
- Aechersonia marginata* Ell. et Ev. Bull. Torr. Cl. 1895. p. 436. In foliis vivis *Psidii* in insula Sandwich.
- *chaetospora* Sacc. Fl. mycol. Lusit. App. p. 62. In foliis nondum emortuis *Sabiceae ingratae*, St. Thomé.
- *paraphysata* Sacc. Fl. mycol. Lusit. App. p. 62. In foliis *Sabiceae ingratae*, St. Thomé.
- Leptothyrium minimum* Allesch. Fungi camer. I. p. 81. In foliis aegrotantibus *Coffeae libericae*, Kamerun.
- Melasma imitans* Peck Bull. Torr. bot. Cl. 1895. p. 209. In frondibus *Pteridis aquilinae*, California. 1115.
- Labrella Xylostei* Fautr. Rev. mycol. 1895. p. 168. In foliis *Lonicerae Xylostei*, Côte-d'or Galliae.
- Amerosporium cinctum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 435. In caule emortuo *Gladioli*, California.
- Excipulina obscura* Peck Bull. Torr. bot. Cl. 1895. p. 209. In *Tsuga canadensi* Newfoundland.



## Melanconieae (Berk.) Sacc.

Sacc. Syll. Fung. III p. 696, X p. 446, XI p. 562.

- Gloeosporium socium* Sacc. (mox edend.) In foliis adhuc vivis Phaseoli vulgaris, socio Uromycete Phaseoli in Italia boreali.
- *Josephinae* D. Sacc. Piant. spont. O. B. P. 1896, p. 28. Tav. 1 n° 9. — In ramis Cerei nycticali culti, Padova, Italia. 1120.
- *Nymphaearum* Allesch. Hedw. 1895. p. 276. In foliis subviviis Nymphaeae albae in Bavaria inf.
- *Senecionis-cordati* Allesch. Hedw. 1895. p. 276. In foliis adhuc vivis Senecionis cordati in Bavaria inf.
- *Menispermi* Allesch. Hedw. 1895. p. 217. In foliis Menispermi canadensis culti, München.
- *Syringae* Allesch. Hedw. 1895. p. 276. In foliis adhuc vivis Syringae albae et S. vulgaris in Bavaria inf.
- *castanicolum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 435. In foliis Castaneae vescae dejectis, Delaware. 1125.
- *Sorauerianum* Allesch. in Zeitsch. f. Pflanzenkr. 1895. p. 276. In foliis vivis Codiae picti culti in Germania.
- *Stanhopeae* Allesch. Hedw. 1895. p. 219. In foliis languidis v. emortuis Stanhopeae cultae München.
- *Anthurii* Allesch. Hedw. 1895. p. 218. In foliis petiolisque Anthurii Martiani culti, München.
- *Ornithidii* Allesch. Hedw. 1895. p. 218. Ad folia emortua Ornithidii densi culti, München.
- *Maxillariae* Allesch. Hedw. 1895. p. 917. In foliis subviviis Maxillariae rufescentis cultae München. 1130.
- *Convallariae* Allesch. Hedw. 1895. p. 277. In foliis adhuc vivis Convallariae majalis in Bavaria inf.
- Myxosporium Rhamni* Allesch. Hedw. 1895. p. 281. In ramulis emortuis Rhamni Frangulae in Bavaria inf.
- *Ariae* Allesch. Hedw. 1895. p. 280. In ramis emortuis Sorbi Ariae in Bavaria inf.
- *Lycii* Allesch. Hedw. 1895. p. 280. In ramis Lycii barbari culti in Bavaria inf.
- Colletotrichum Erythrinae* Ell. et Ev. Bull. Torr. Cl. 1895. p. 437. In foliis Erythrinae herbaceae, Florida. 1135.
- *Azaleae* Ell. et Ev. Bull. Torr. Cl. 1895. p. 437. In foliis Azaleae viscosae, Florida.
- *Commelinae* Ell. et Ev. Bull. Torr. Cl. 1895. p. 437. In foliis Commelinae angustifoliae, Florida.
- Naemaspora Strobi* Allesch. Hedw. 1895. p. 279. In cortice ramulorum Pini Strobi in Bavaria inf.
- *Alni* Allesch. Hedw. 1885. p. 279. In cortice Alni incanae in Bavaria inf.
- Melanconium crinigerum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 436. In cortice Aceris emortui, Ohio. 1140.
- *Alni* C. et Ev. Proc. Acad. Philad. 1895. p. 436. In cortice vivo Alni serrulatae, New Jersey.
- Marsonia Panattoniana* Berl. Riv. Patol. veget. III. (1895.) p. 342. In foliis vivis Lactuae sativae, quae corrumpit, Lari di Pisa (Doct. G. Panattoni).
- *Rhamni* Ell. et Ev. Proc. Acad. Philad. 1895. p. 436. In foliis Rhamni Purshianae, Washington Amer. bor.
- *rubiginosa* Ell. et Ev. Proc. Acad. Philad. 1895. p. 436. In foliis Salicis(?), Idaho Amer. bor.

- Coryneum? camerunense* P. Henn. Fungi camer. I. p. 81. In rhizomate et stipite emortuis Filicum, Kamerun. 1145.
- Pestalozzia Cuboniana* Brizi Bull. Soc. bot. ital. 1895. p. 100. In foliis emortuis Myrti communis in agro Romano.
- *Psidii* Pat. Bull. Soc. mycol. 1895. p. 232. In fructibus Psidii pomiferi in Aequatoria.
- *brevi-aristata* Tracy et Earle Mississippi Fungi, 1895. p. 113. In ramis vivis Tecomae radicans, Mississippi.
- *Terebinthi* Brizi Bull. Soc. bot. ital. 1895. p. 99. In ramulis subvivi v. emortuis Pistaciae Terebinthi in agro Romano.
- *Cycadis* Allesch. Hedw. 1895. p. 219. In foliis languidis Cycadis revolutae cultae, München. 1150.
- Septogloeum Cynanchi* Allesch. Hedw. 1895. p. 282. In foliis languidis Cynanchi Vincetoxici in Bavaria inf.
- Steganosporium irregulare* Fautr. Rev. myc. 1895. p. 170. In ramis dejectis Betulae albae, Côte-d'Or Galliae. Status conid. Massariae Niessleanae.
- Cylindrosporium Tubeufianum* Allesch. Hedw. 1895. p. 278. In fructibus immaturis Pruni Padi, quae necat, in Bavaria inf.
- *Rhamni* Ell. et Ev. Proc. Acad. Philad. 1895. p. 435. In foliis Rhamni sp., California.
- *kilimandscharicum* Allesch. in P. Henn. Pilze Ostaf. p. 35. In foliis Commeliniae in Africa tropica. 1155.
- Libertella affinis* D. Sacc. Piant. spont. O. B. P. 1896, p. 28. Tav. I. n° 10. In ramis corticatis, emortuis Hibisci syriaci, Padova, Italia.

## Hyphomyceteae (Mart.) Sacc.

Sacc. Syll. Fung. IV. p. 1, X. p. 510, XI. p. 586.

### Fam. 1. Mucedineae Link.

- Microstroma Cycadis* Allesch. Hedw. 1895. p. 219. In foliis languidis Cycadis revolutae cultae, München.
- Fusidium violaceum* Pat. Bull. Soc. mycol. 1895. p. 234. In foliis Rubiaceae cujusdam in Aequatoria.
- Aspergillus rufescens* Berl. Fung. Mor. fasc. VII. tab. LIV. fig. 8—11. In cortice vivo radicis Mori albae in Italia.
- *subgriseus* Peck Bull. Torr. bot. Cl. 1895. p. 210. In Corticio amorpha, Newfoundland. 1160.
- Cephalosporium oxysporum* March. Champ. copr. VII. p. 135. t. II. fig. 6. In stercore aprugno in Arduennis.
- *asperum* March. Champ. copr. VII. p. 134. t. I. fig. 3. Ad fimum ovium in Belgio.
- Penicillium olivaceum* Wehmer Beitr. Kenntn. einheim. Pilze II. p. 73. t. II. In fructibus adhuc vegetis Citri Aurantii, C. Limonum, C. mediae et C. deliciosae in Germania.
- Botryosporium Leucostachys* Zopf in Allesch. Hedw. 1895. p. 220. In foliis languidis Smilacis grandiflorae cultae, München.
- Gliocladium macropodium* March. Champ. copr. VII. p. 135. t. I. fig. 6. In fimo Macropodis in Belgio. 1165.
- Physospora elegans* Morg. New N. Amer. Fungi, 1895. p. 44. tab. III. fig. 23. In truncis putridis Quercus, Ohio Amer. bor. A typo Physosporae valde recedens et prob. nov. genus, cum Hypochno comparandum.

- Rhinotrichum parietinum* Sacc. in D. Sacc. Plant. spont. O. B. P. 1896, p. 29. Ad parietes udos calceos calidarium, Padova, Italia.
- Monosporium stilboideum* Sacc. in D. Sacc. Plant. spont. O. B. P. 1896, p. 29. Tav. I. n° 12. In epicarpio fructuum putridorum Luffae, Padova, Italia.
- Botrytis Douglasii* Tub. Pflanzenkrankh. p. 283 et Behrens in Zeitsch. Pflanzenkr. 1895. p. 136. In turionibus Pseudosugae Douglasii cultae in Germania. Verisimiliter mera forma B. vulgaris.
- *fulgens* March. Champ. copr. VII. p. 137. c. icone. In ascomatibus Ascophani carnei ad fimum anserinum in Arduennis. 1170.
- Ovularia Cucurbitae* Sacc. (mox edenda). In foliis Cucurbitae Peponis in Italia boreali.
- *conspicua* Fautr. et Lamb. Rev. mycol. 1895. p. 169. In foliis Cirsii eriophori, Côte-d'Or Galliae.
- *lotophaga* Ell. et Ev. Proc. Acad. Philad. 1895. p. 437. In foliis vivis Loti Torreyi, California.
- Mycogone cinerea* Morgan New North Am. Fungi, 1895. p. 45. tab. III. fig. 22. In Helvella elastica, Ohio Amer. bor.
- Ramularia eneans* P. Magn. Hedw. 1895. p. (102). In foliis Epilobii angustifolii in Helvetia saxonica. 1175.
- *circumfusa* Ell. et Ev. Proc. Acad. Philad. 1895. p. 437. In foliis Rumicis obtusifolii, Ohio.
- *Hypochoeridis* P. Magnus Die Ustil. Brandenb. p. 83. t. 1. fig. 7—10. In foliis Hypochaeridis radicata in Germania.
- *Campanulae-latifoliae* Allesch. Hedw. 1895. p. 283. In foliis vivis Campanulae latifoliae in Bavaria inf.
- *cercosporoides* Ell. et Ev. Proc. Acad. Philad. 1895. p. 437. In foliis Epilobii spicati, Washington.
- Cercospora Baccharidis* Ell. et Ev. Proc. Acad. Philad. 1895. p. 438. In foliis Baccharidis Douglasii, California. 1180.
- *nivosa* Ell. et Ev. Proc. Acad. Philad. 1895. p. 438. In foliis Pentastemonis Digitalis, Ohio

## Fam. 2. Dematiaceae Fr.

- Coniosporium pulvinatum* Annie Lorrain Smith in Journ. of Bot. 1895. p. 344. Ad culmos Bambusae in Africa orient.
- Echinobotryum pulvinatum* March. Champ. copr. VII. p. 139. t. II. fig. 2. In stercore gallinaceo in Arduennis.
- Monospora nigra* Morg. New N. Amer. Fungi, 1895. p. 44. tab. III. fig. 20. Ad culmos Zeae Maydis emortuos, Ohio Amer. bor. An potius Acremoniella?
- Stachybotrys crassa* March. Champ. copr. VII. p. 140. fig. 4. In stercore damarum in Belgio. 1185.
- Periconia felina* March. Champ. copr. VII. p. 141. t. II. fig. 4. In fimo felino vetusto in Belgio.
- *scyphophora* March. Champ. copr. VII. p. 141. t. II. fig. 1. In ligno stercoreato in Belgio.
- Streptothrix cinerea* Morg. New North Am. Fungi, 1895. p. 44. tab. III. fig. 22. In culmis udis vetustis Zeae Maydis, Ohio Amer. bor.
- Trichosporium gossypinum* Pat. Bull. Soc. mycol. 1895. p. 233. In truncis vetustis in Aequatoria.
- *inflatum* March. Champ. copr. VII. p. 142. t. II. fig. 5. In fimo suino in Belgio. 1190.

- Cladosporium Stanhopeae* Allesch. Hedw. 1895. p. 221. In foliis languidis Stanhopeae spec. cultae, München.
- *Menispermii* Allesch. Hedw. 1895. p. 220. In foliis languidis *Menispermii canadensis* culti, München.
- *aromatium* Ell. et Ev. Proc. Acad. Philad. 1895. p. 439. In foliis vivis *Rhois aromaticae*, California.
- Brachysporium pedunculatum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 440. In caule emortuo *Sambuci glauci*, Washington.
- Cercospora Henningsii* Allesch. in P. Henn. Pilze Ostaf. p. 35. In foliis *Manihot altissimae* in Africa tropica. 1195.
- *Jochromatis* Pat. Bull. Soc. mycol. 1895. p. 233. In foliis *Jochromatis* sp. in Aequatoria.
- *Piperis* Pat. Bull. Soc. mycol. 1895. p. 233. In foliis *Piperis* sp. in Aequatoria.
- *hibiscina* Ell. et Ev. Proc. Acad. Philad. 1895. p. 438. In foliis *Hibisci tiliacei* Mexico.
- *stomatica* Ell. et Davis Proc. Acad. Philad. 1895. p. 438. In foliis *Solidaginis latifoliae*, Wisconsin.
- *Grindeliae* Ell. et Ev. Proc. Acad. Philad. 1895. p. 439. In foliis *Grindeliae* sp., California. 1200
- *flexuosa* Tracy et Earle Mississippi Fungi, 1895. p. 118. In foliis *Diospyri virginianae*, Mississippi.
- *graminicola* Tracy et Earle Mississippi Fungi, 1895. p. 118. In foliis vivis *Phlei pratensis*, Mississippi.
- *maritima* Tracy et Earle Mississippi Fungi, 1895. p. 119. In foliis *Crotonis maritimi*, Mississippi.
- *mississippiensis* Tracy et Earle Miss. Fungi 1895. p. 119. In foliis *Smilacis glaucae* et *S. rotundifoliae*, Mississippi.
- *Galactiae* Ell. et Ev. Bull. Torr. Cl. 1895. p. 438. In foliis *Galactiae Nuttallii*, Florida. 1205.
- *Chrysobalani* Ell. et Ev. Bull. Torr. Cl. 1895. p. 438. In foliis *Chrysobalani oblongifolii*, Florida.
- *Cassavae* Ell. et Ev. Bull. Torr. Cl. 1895. p. 438. In foliis *Cassavae*, Florida.
- Acrothecium recurva* Morg. New N. Amer. Fungi, 1895 p. 44. tab. III. fig. 21. Ad ligna putrida, Ohio Amer. bor.
- Heterosporium Allii* Ellis. — var. *Bomareae* Pat. Bull. Soc. myc. 1895. p. 233. In foliis *Bomareae* in Aequatoria.
- Sporodesmium punctans* Ell. et Ev. Proc. Acad. Philad. 1895. p. 439. In cortice ramorum adhuc viventium *Planerae aquaticae*, Louisiana. 1210
- Stemphylium laxum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 440. In caule emortuo *Bigeloviae graveolentis*, Colorado.
- *subradians* Ell. et Ev. Proc. Acad. Philad. 1895. p. 441. In cortice ramorum *Lonicerae involucratae*, Colorado.
- *heterosporum* D. Sacc. Piante spont. O. B. P. 1896. p. 28. In petiolis emortuis *Chamaeropsis excelsae*, Padova, Ital. bor.
- Macrosporium Amaranthi* Peck Bull. Torr. Cl. 1895. p. 493. In maculis foliorum *Amaranthi retroflexi*, Kansas Amer. bor.
- *Clematidis* Peck Bull. Torr. Cl. 1895. p. 493. In foliis languidis *Clematidis Fremonti*, Kansas Amer. bor. 1215

*Macrosporium toruloides* Ell. et Ev. Proc. Acad. Philad. 1895. p. 439. In caule emortuo Urticae Lyallii, Washington.

— *cucumerinum* Ell. et Ev. Proc. Acad. Philad. 1895. p. 440. In foliis vivis Cucumeris Melonis, New Mexico.

*Triposporium bicornis* Morgan New N. Am. Fungi, 1895. p. 43. tab. III. fig. 19. In culmis vetustis Zeae Maydis, parasiticum, ut videtur, Diplodiae Zeae, Ohio Amer. bor.

### Fam. 3. Stilbeae Fr.

*Stilbum Euphorbiae* Pat. Bull. Soc. mycol. 1895. p. 234. In corticibus putridis Euphorbiae sp. in Aequatoria.

— *Rimbachii* Pat. Bull. Soc. mycol. 1895. p. 234. In corticibus in Aequatoria. 1220.

— *camerunense* P. Henn. Fungi camer. I. p. 81. In truncis emortuis, Kamerun.

*Stilbomyces* Ellis Proc. Acad. Philad. 1895. p. 441. (nov. gen.). Hyphae pallidae, steriles, repentes; fertiles in stipites erectos apice capitatos fasciculatae; conidia bacillaria, pluriseptata, sursum aristata, articulis demum secedentibus

— *Berenice* Ell. et Ev. l. c. In cortice vivo Diospyri, Louisiana.

*Graphium stercorarium* March. Champ. copr. VII. p. 143 t. I. fig. 5. In tela stercorata, in fimo leporino et anserino in Belgio.

*Isariopsis penicillata* Ell. et Ev. Bull. Torr. Cl. 1895. p. 438. In mycelio Meliolae ad folia Gordoniae Lasianthi, Florida. 1225.

*Heydenia fungicola* Peck Bull. Soc. bot. Cl. 1895. p. 493. In Polyporo abietino, Maine Amer. bor.

### Fam. 4. Tubercularieae Ehrenb.

*Tubercularia Toxicodendri* Fautr. Rev. mycol. 1895. p. 171. In ramis siccis Rhois Toxicodendri, Côte-d'Or Galliae.

*Illosporium moricola* Sacc. (mox edenda). In ramulis putrescentibus udis Mori albae in Italia bor.

— *flavellum* Berk. et Br. Linn. Trans. II. p. 68 (1883), Cooke Handb. Austral. Fungi p. 386. In lichenibus, Queensland Australiae.

*Dendrodochium subtile* Fautr. Rev. Myc. 1895. p. 167. In acubus Pini silvestris, Côte-d'Or Galliae. 1230.

— *strictum* D. Sacc. Piant. spont. O. B. P. 1896: p. 29, Tab. I. n° 11. Ad corticem, in basi truncorum Cercidis Siliquastri, Padova, Italia.

— *hymenuloides* Sacc. (mox edend.). In ramulis putridis Mori albae in Italia bor.

— *Cattleyae* Allesch. Hedw. 1895. p. 221. In bulbis subvivis Cattleyae labiatae cultae, München.

*Cylindrocolla Stuhlmanni* P. Henn. Pilze Ostaf. p. 35. In spicis Panici in Africa tropica.

*Volutella toxica* Fautr. Rev. mycol. 1895. p. 171. In ramis emortuis Rhois Toxicodendri, Côte-d'Or Galliae. 1235.

— *sulphurea* Roll. Bull. Soc. mycol. 1896. p. 8. tab. I. fig. 10. Ad olivas siccas dejectas, Golfe Juan Galliae.

— *Morearum* Roll. Bull. Soc. mycol. 1896. p. 8. tab. II. fig. 7. In cortice Fici Caricae, Golfe Juan Galliae.

- Lachnodoichium** March. Champ. copr. VII. p. 144 (nov. gen.). Sporodochia subglobosa, pallida, gelatinosa, sporophoris tecta. Conidia oblonga, continua, hyalina, in sporophoris exsertis acrogeno-capitulata.
- **candidum** March. l. c. t. I. f. 2. In fimo aprugno in Belgio.
- Fusarium** (Fusisporium) Schnablianus Allesch. Hedw. 1895. p. 289. In ramis decorticatis Aceris Pseudoplatani in Bavaria inf. 1240.
- **equiseticola** Allesch. Hedw. 1895. p. 289. In caulibus exsiccatis Equiseti limosi in Bavaria inf.
- (**Leptosporium**) **follicola** Allesch. Hedw. 1895. p. 289. In foliis emortuis Arabidis alpinae in Bavaria inf.
- **Jungiae** Pat. Bull. Soc. mycol. 1895. p. 234. In soris Puccinae sp. ad folia Jungiae in Aequatoria.
- **coffeicola** P. Henn. Fungi camer. I. p. 82. Ad petiolos et folia Coffeae libericae, Kamerun.
- **rhicolum** Fautr. Rev. mycol. 1895. p. 171. In ramis emortuis Rhois Toxicodendri, Côte-d'Or Galliae. 1245.
- **Nectriae-Turraeae** P. Henn. Fungi camer. I. p. 82. In ramis vivis Turraeae Volkensii, Kilimandscharo Africae.
- **acuminatum** Ell. et Ev. Proc. Acad. Philad. 1895. p. 441. In caule vivo Solani tuberosi, New York.
- **camerunense** P. Henn. Fungi camer. I. p. 81. In corticibus emortuis arborum deciduarum, Kamerun.
- **rubicolor** Berk. et Br. Linn. Trans. II. p. 68 (1883) tab. XV. fig. 10—11. Cooke Handb. Austral. Fungi p. 387. In foliis Eucalypti supra gallas effusum, Queensland Australiae.

### Appendix.

- Boletus corsicus** Roll. Bull. Soc. mycol. 1896 p. 1 t. I f. 5. In pinetis juxta Cistos in Corsica. — Cfr. supra p. VII. 1250
- Schizosaccharomyces octosporus** Beyerinck in Centralbl. f. Bact. u. Par. XVI. 1894. p. 49. In uvis aridis.
- Penicillium italicum** Wehmer Beitr. Kenntn. einheim. Pilze II. p. 68. t. II. In fructibus adhuc vegetis Citri Aurantium etc. in Germania.

